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## 1. REMARKS ON THE PARTS CATALOG

This parts catalog has the information on the spare parts for TD27 engine, going back to October 2008 when the TD27 engine was introduced.

Please note that the contents of this parts catalog are subject to change, deletion, and non-sale without prior notice.

Please note that this parts catalog does not indicate how to service forklift trucks.

Whether all or partial, photocopying is prohibited without prior consent of Nissan.

## 2. ENGINE MODELS HEREIN

Model No.	Applied Model	Start of Production	Specification
1	10100-FF46C	October, 2008	TD27

## 3. CATALOG APPLIED

The symbol and abbreviation are used in this particular note space as follows.

However, the supplier type and the general name are not indicated on this list.

Catalog Applied	Meaning	Example	Catalog Applied	Meaning	Example
*	Optional Equipment		CUT USE	Cut Use	L=120 CUT USE
AR	As Required		STD	Standard	STD
-A	Ampere	10A	T=∼	Thickness (mm)	T=0.01
-C	Temperature	82C	US=∼	Under Size (mm)	US=0.25
D=	Diameter (mm)	D=10	∼V	Volts	12V
F/∼	Exclusive Use	F/GAS	W/∼	With	W/RUB
∼KW	Kilowatt, Electric power	2.3KW	W/O∼	Without	W/O RUB
L=	Length (mm)	L=910	Z=∼	Number of Gear Teeth	Z=17
OS=∼	Oversize (mm)	OS=0.50	GRADE∼	Grade	GRADE 1
SELECT	Selection Use	SELECT L=19.5	FR	Front	F/FR
SELECT USE	Proper Use	SELECT USE	RR	Rear	F/RR
			RH	Right	F/RH
			LH	Left	F/LH

#### 4. WHAT EACH DESCRIPTION INDICATES

\* : Non-sale

Illustration No

Part Structure

Interchangeability

S	KEY NO.	LEV	PART NO.	PART NAME	SPECIFICATION	QTY	APPLIED DATE	ICANF	FORMER PART NO.	APPLIED MODEL																																							
	1	001	1	25230-41H02	RELAY ASSY	1M	02/06/02-			0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	4						
	2	001	1	25237-GB40A	BRACKET ASSY-RELAY		01/06/02-			0	0	0								0	0	0	0					0	0	0						0	0	0											
	3	001	1	25630-FG000	RELAY ASSY-HORN		01/06/02-			0	0	0								0	0	0	0					0	0	0						0	0	0											
	4	001	1	25650-GA10A	HORN ASSY-BACK		01/06/02-0610			0	0	0								0	0	0	0					0	0	0						0	0	0											
		002	1		F/BACK BUZZER		01/06/02-0610			*	*	*								*	*	*	*																										
		003	1		F/FORWARD CHIME + BACK BUZZER		01/06/02-0610			*	*									*	*	*	*																										
		004	1				01/06/10-			0	0	0								0	0	0	0					0	0	0						0	0	0											
	5	001	1	25650-26K60	HORN ASSY-FRONT & REAR		01/06/02-			*	*	*								*	*	*	*																										
	6	001	1	69392-L4000	INSULATOR		01/06/02-			*	*	*								*	*	*	*																										
	7	001	1	24210-11A00	CLAMP		01/06/02-			*	*	*								*	*	*	*																										
	8	001	1	24335-89900	DIODE		01/06/02-			*	*	*								*	*	*	*																										
	9	001	1	25640-44100	BUZZER ASSY BACKING WARNING		01/06/02-			0	0	0								0	0	0	0					0	0	0						0	0	0											

In case of the same part no.as the above, the columns become empty.

○ : Standard

\* : Option

Model No

#### 5. INTERCHANGEABILITY

- 2-2. : A new part can supersede a former one, and vice versa.
- 2-0. : A new part can supersede a former one, but not vice versa.
- 0-2. : A former part can supersede a new one, but not vice versa.
- 0-0. : There is no interchangeability between the new and former parts.
- 5-0. : A new part can supersede a former one as a set substitute.
- 7-0. : A new part can supersede a former one under some conditions.

#### 6. The "Level" column indicates the assembly level relationship among the components.

- Level 1 ..... Parent part
- Level 2 ..... Part subordinate to Level 1
- Level 3 ..... Part subordinate to Level 2



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A ENGINE MECHANICAL

B FUEL & ENGINE CONTROL

C EXHAUST & COOLING

D ENGINE ELECTRICAL

ALPHA. PART NAME INDEX

PART NO. INDEX

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## ENGINE MECHANICAL

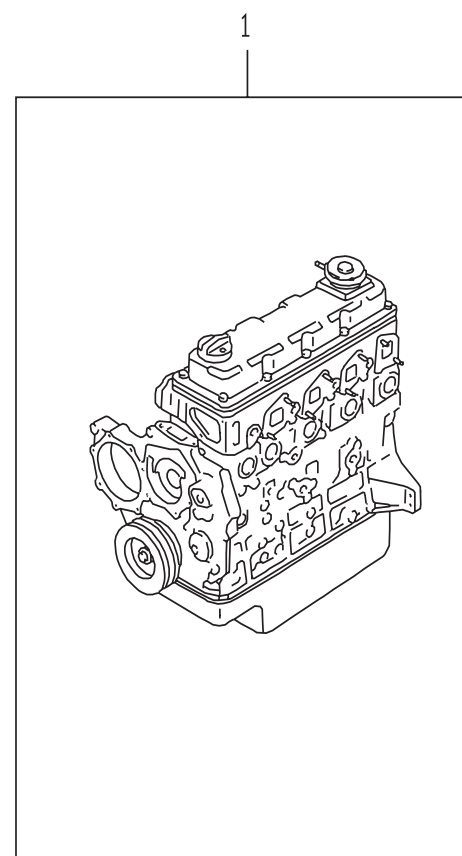
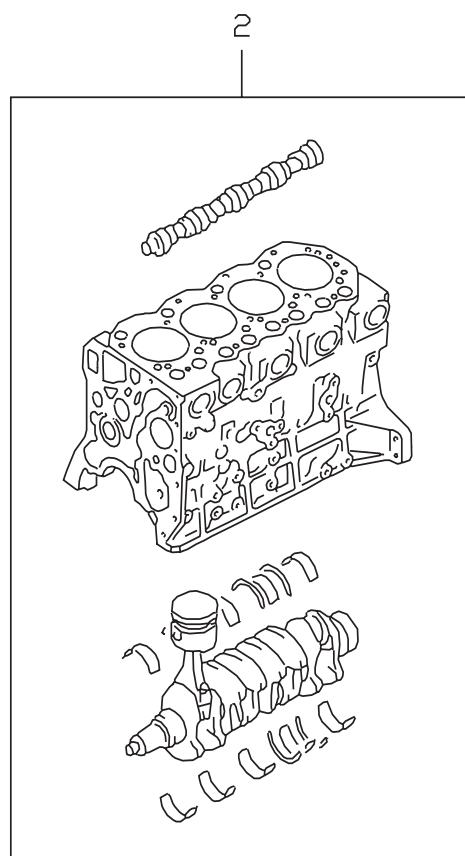
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A

## SEC. 101

### BARE & SHORT ENGINE

[200810-      ]



P0TD2A310101\_A



## SEC. 101

### BARE & SHORT ENGINE

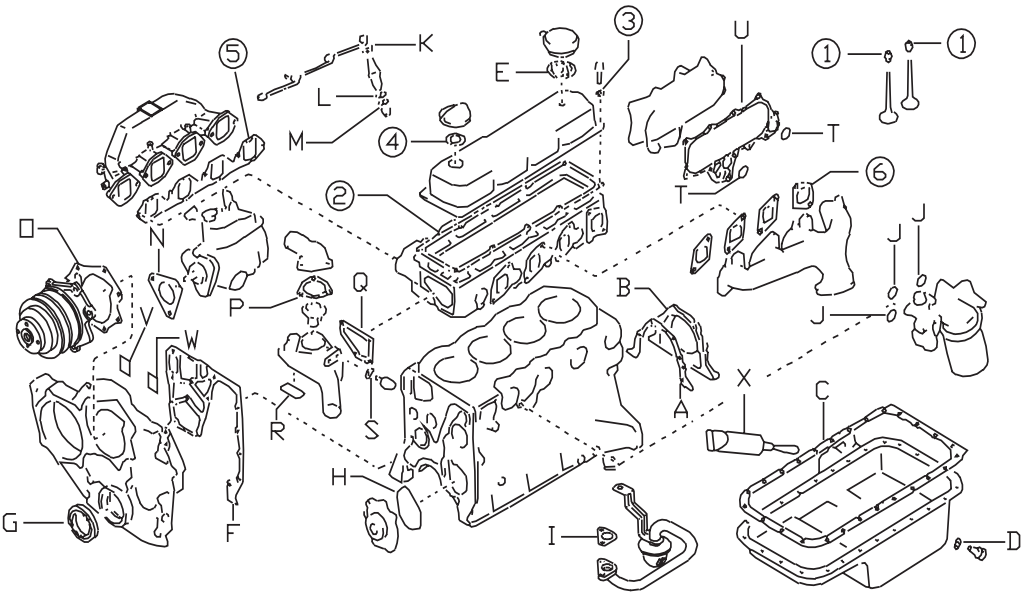
[illegible]

SEC. 102  
ENGINE GASKET KIT

[200810-        ]

NOTE; KEY NO.1 GASKET KIT ENGINE REPAIR

QTY



A	GASKET-RETAINER	1
B	SEAL-OIL CRANK REAR	1
C	GASKET-OIL PAN	1
D	WASHER-DRAIN PLUG	1
E	GASKET-AIR CONTROL VALVE	1
F	GASKET-FRONT PLATE	1
G	SEAL-OIL CLANK FRONT	1
H	GASKET-OIL PUMP	1
I	SEAL-O RING	1
J	SEAL-O RING	3
K	GASKET-NOZZLE	4
L	WASHER-NOZZLE	4
M	GASKET-NOZZLE TOP	4
N	GASKET-INJECTION PUMP	1
O	GASKET-WATER PUMP	1
P	GASKET-OUTLET	1
Q	GASKET-THERMO HOUSING	1
R	SEAL-O RING	1
S	GASKET-THERMO SWITCH	1
T	O RING-OIL FILTER BRACKET	2
U	GASKET-OIL COOLER	1
V	SEAL RUBBER	1
W	SEAL RUBBER	1
X	GASKET-LIQUID	1
①	SEAL-VALVE	8
②	GASKET-ROCKER COVER	1
③	WASHER-SEAL	10
④	PACKING-OIL FILLER CAP	1
⑤	GASKET-MANIFOLD INTAKE	1
⑥	GASKET-EXHAUST MANIFOLD	4

NOTE; THIS KIT DOES NOT INCLUDE GASKET-CYLINDER HEAD. PLEASE ORDER GASKET-CYLINDER HEAD SEPARATELY,IF REQUIRED<SEC.111>

NOTE; KEY NO.2 GASKET-VALVE REGRIND  
INCLUDES ①~⑥

P0TD2A310102\_A

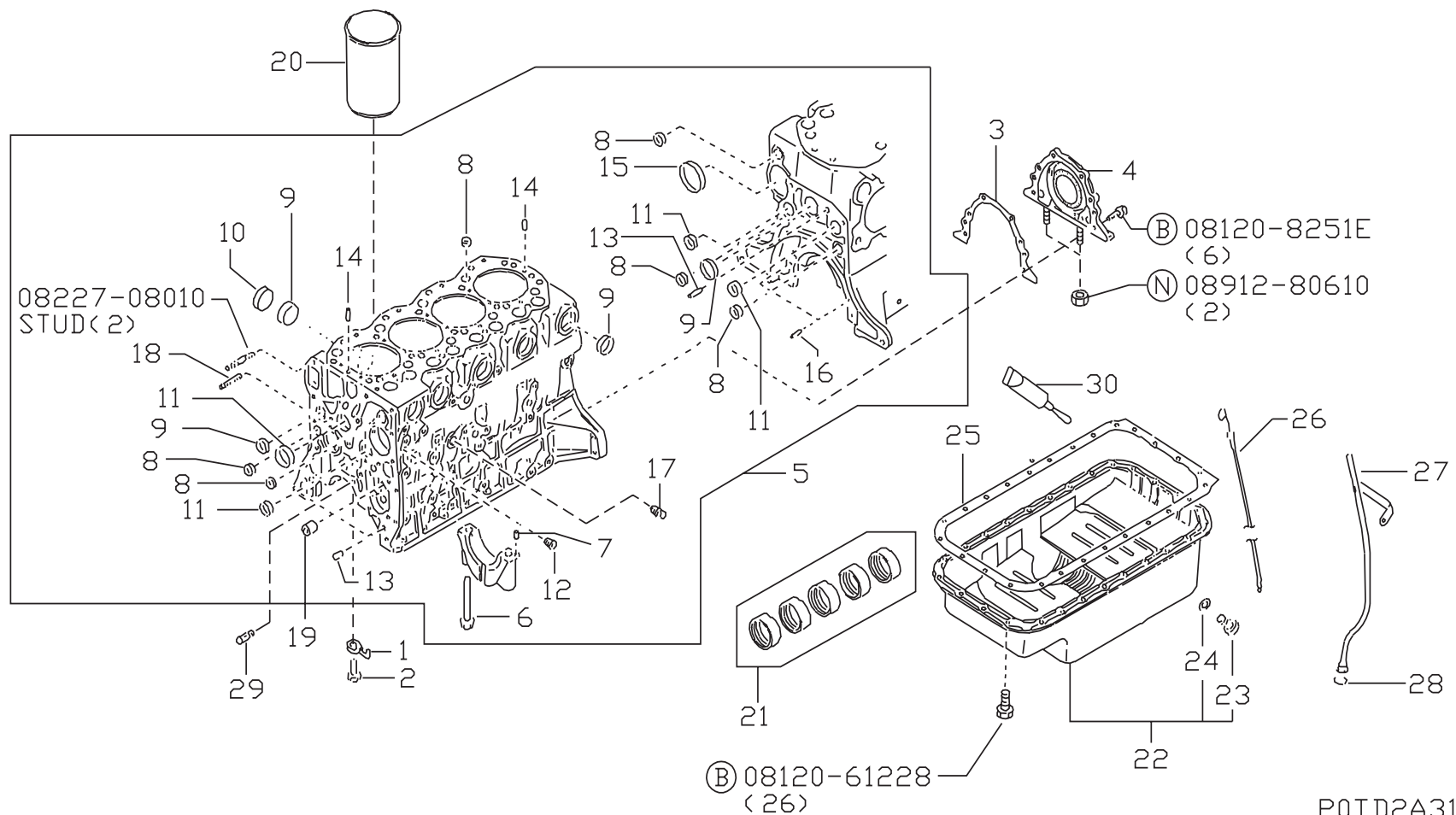
## SEC. 102

### ENGINE GASKET KIT

[illegible]

## SEC. 110 CYLINDER BLOCK & OIL PAN

[200810-      ]



POTD2A310110\_A

## SEC. 110

### CYLINDER BLOCK & OIL PAN

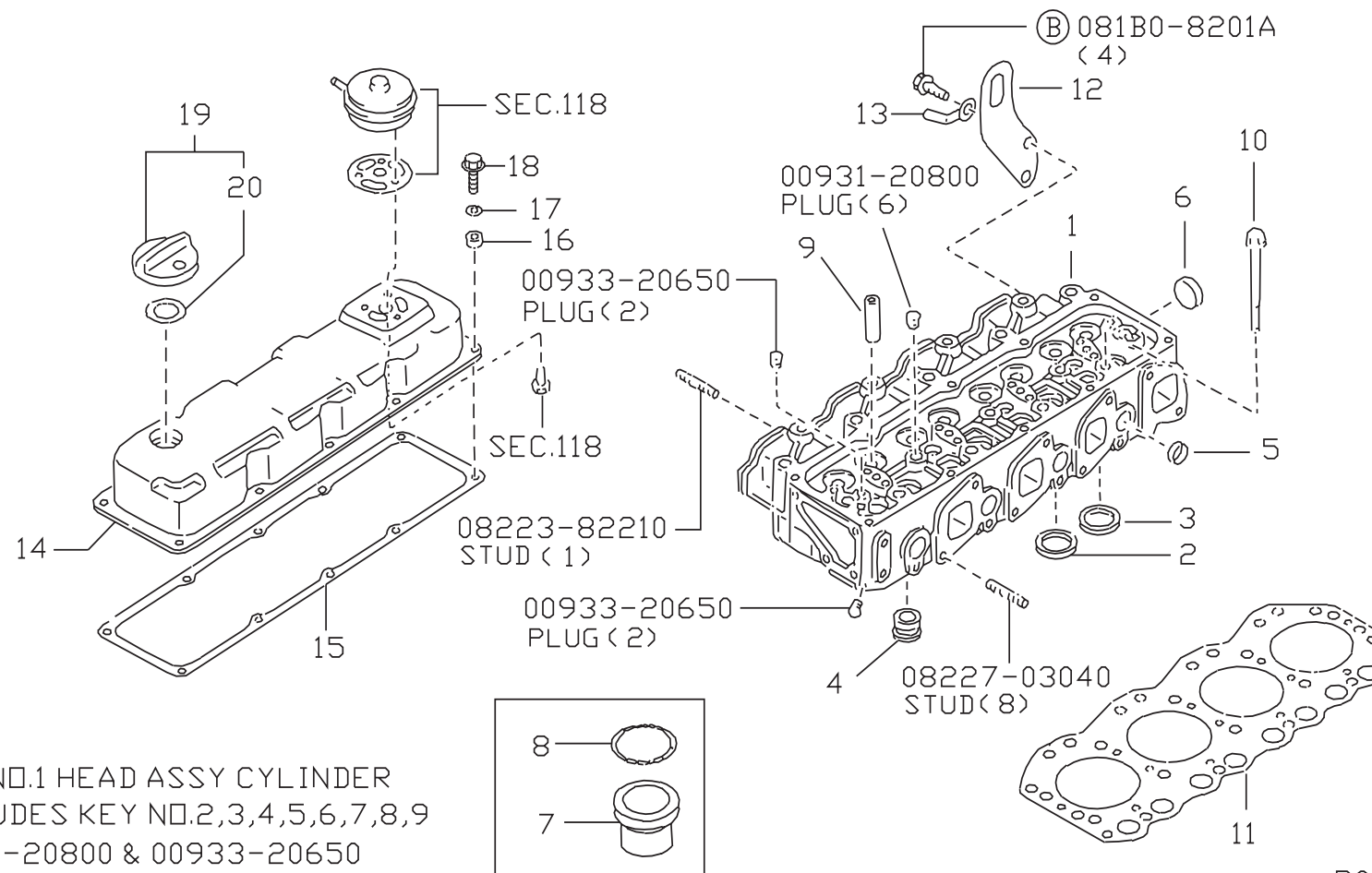
SEC. 110

CYLINDER BLOCK & OIL PAN

										APPLIED MODEL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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## SEC. 111 CYLINDER HEAD & ROCKER COVER

[200810-      ]



POTD2A310111\_A

## SEC. 111

### CYLINDER HEAD & ROCKER COVER

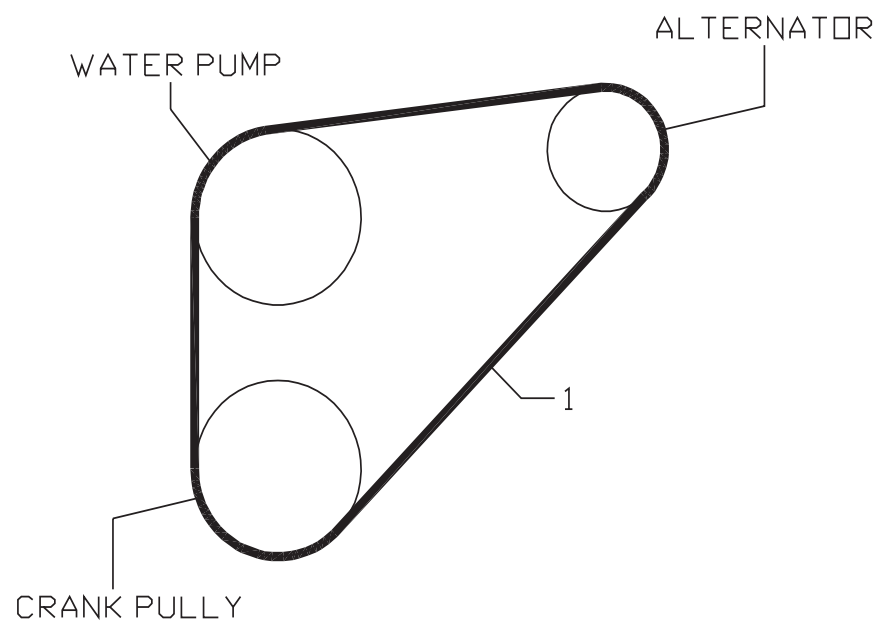
SEC. 111

CYLINDER HEAD & ROCKER COVER

										APPLIED MODEL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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**SEC. 117**  
**FAN,COMPRESSOR & POWER STEERING BELT**

[200810-       ]



P0TD2A310117\_A



## SEC. 117

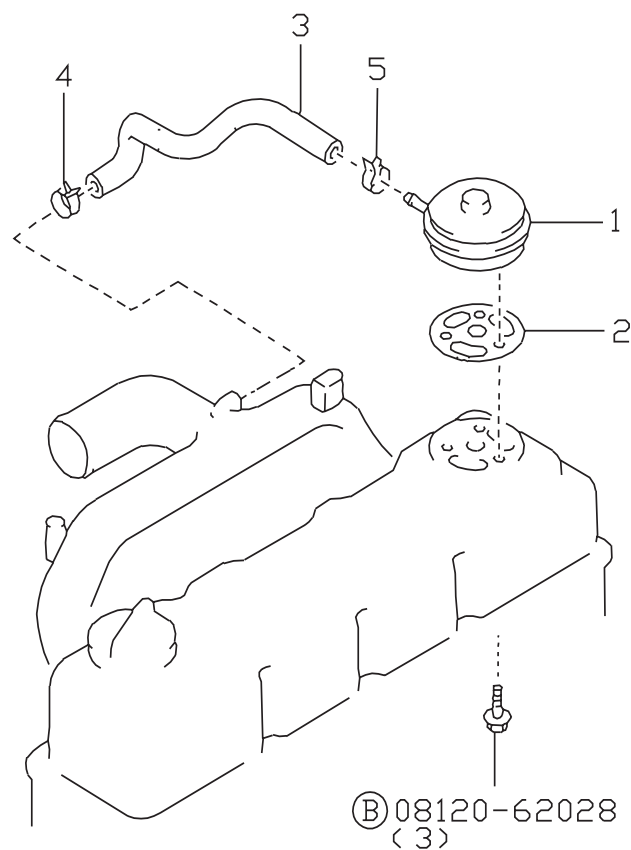
### FAN,COMPRESSOR & POWER STEERING BELT

[illegible]

## SEC. 118

### CRANK CASE VENTILATION

[200810-      ]



P0TD2A310118\_A

## SEC. 118

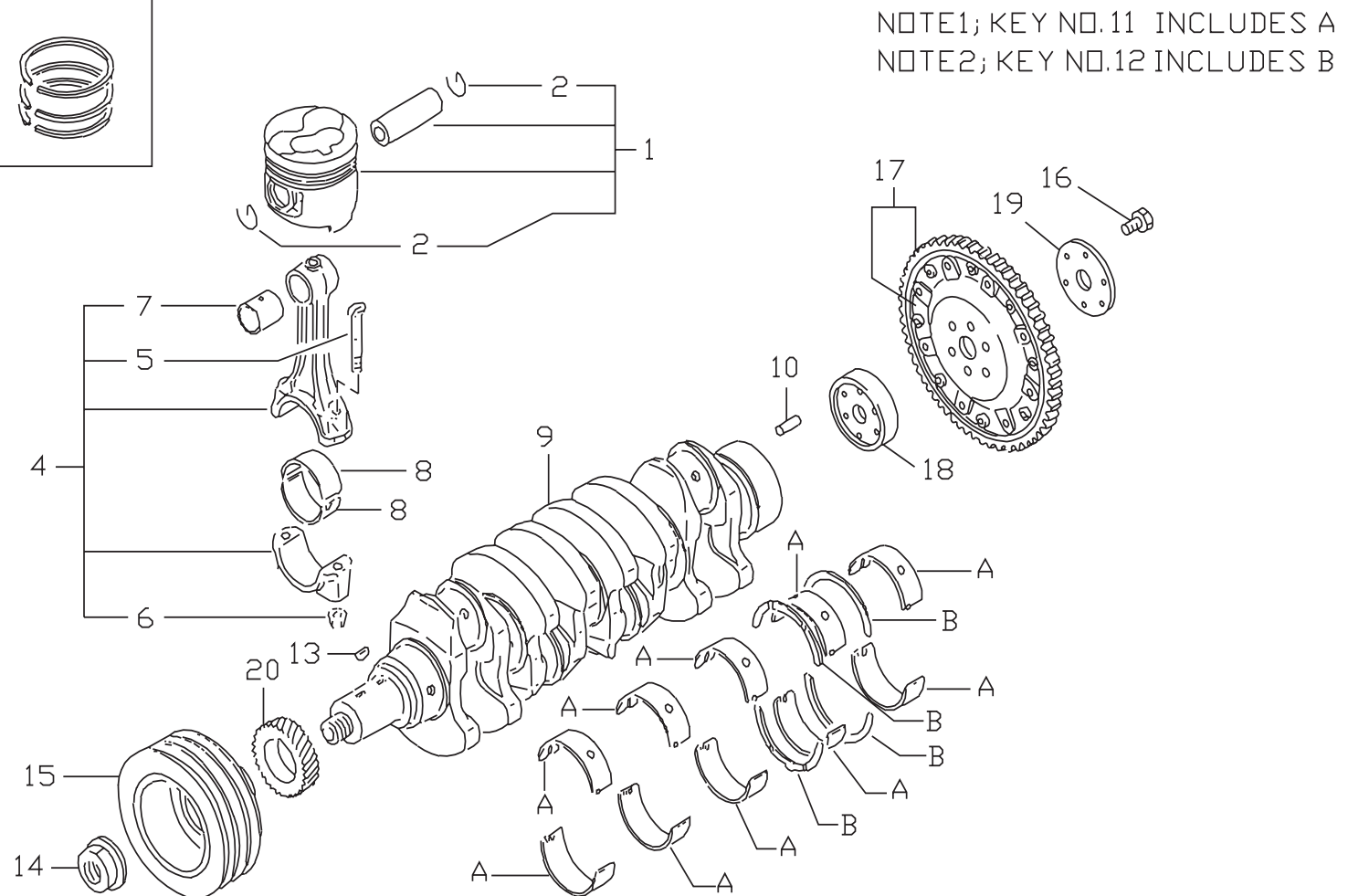
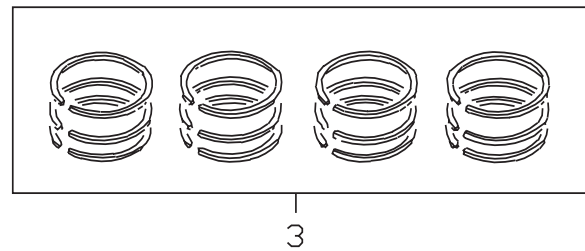
### CRANK CASE VENTILATION

[illegible]

## SEC. 120

### PISTON,CRANKSHAFT & FLYWHEEL

[200810- ]



P0TD2A310120\_A

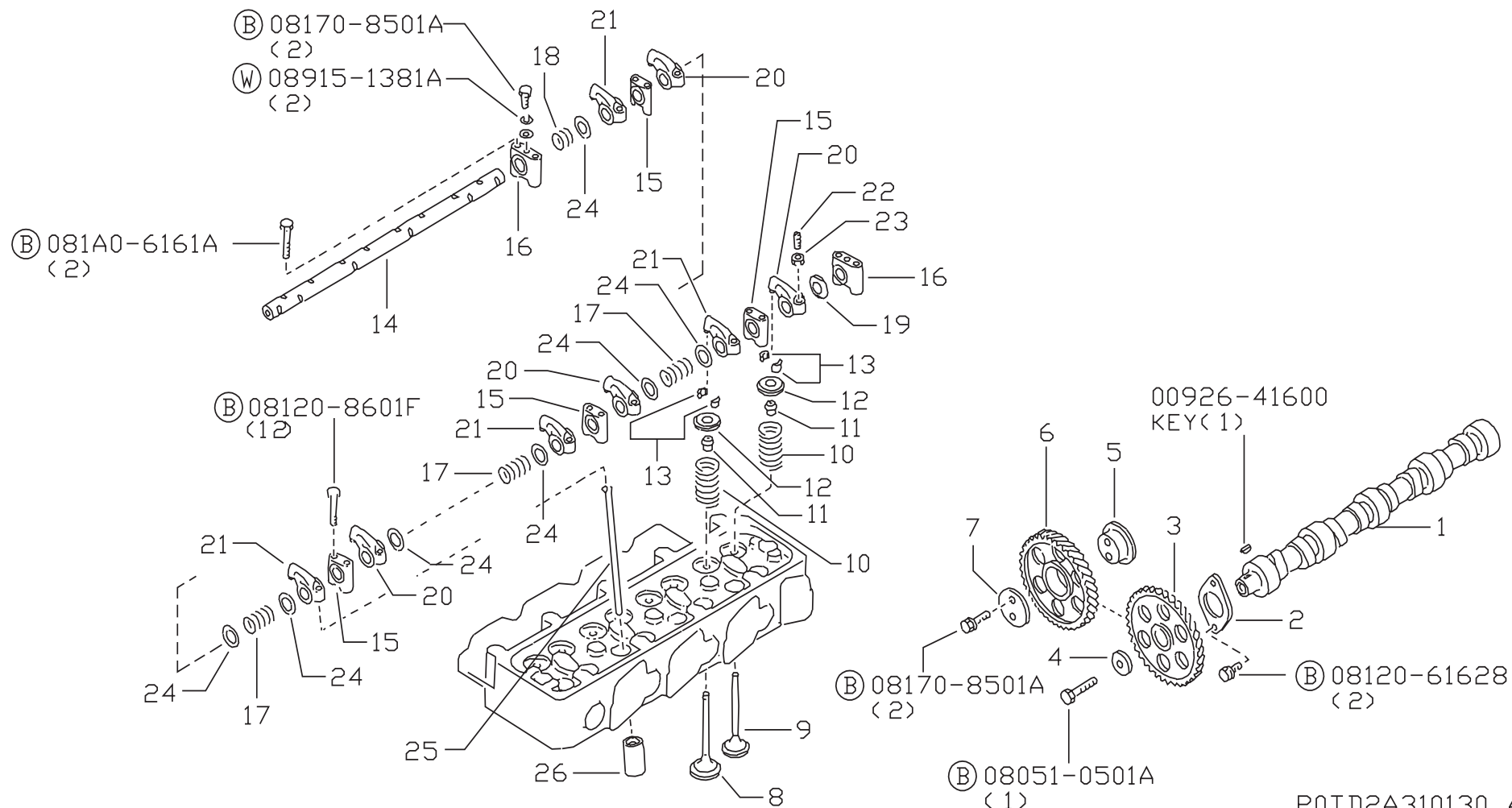
## SEC. 120

### PISTON,CRANKSHAFT & FLYWHEEL

SEC. 120 PISTON,CRANKSHAFT & FLYWHEEL										APPLIED MODEL																													
S	KEY NO.	LEV	PART NO.	PART NAME	SPECIFICATION	QTY	APPLIED DATE	ICANF	FORMER PART NO.	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3
										0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
	1	001	1	12010-6T005	PISTON,W/PIN	GRADE 1	04	08	10	-																													
		002	1	-6T015		GRADE 2	04	08	10	-																													
	2	001	2	12032-54T00	RING-SNAP,PISTON PIN		08	08	10	-																													
	3	001	1	12033-6T011	RING-SNAP,PISTON PIN	STD	01	08	10	-																													
	4	001	1	12100-0W802	ROD COMPL-CONNECTING		04	08	10	-																													
	5	001	2	12109-43G00	BOLT-CONNECTING ROD		08	08	10	-																													
	6	001	2	12112-43G00	NUT-CONNECTING ROD		08	08	10	-																													
	7	001	2	12030-31N00	BUSHING		04	08	10	-																													
	8	001	1	12111-2W20A	BEARING-CONNECTING ROD	STD	08	08	10	-																													
		002	1	12117-2W20A		US=0.25	08	08	10	-																													
		003	1	12118-2W20A		US=0.50	08	08	10	-																													
		004	1	12119-2W20A		US=0.75	08	08	10	-																													
		005	1	12120-2W20A		US=1.00	08	08	10	-																													
	9	001	1	12200-6T00B	CRANKSHAFT ASSY		01	08	10	-																													
	10	001	1	01522-10224	PIN-SPRING		01	08	10	-																													
	11	001	1	12207-MA70A	BEARING SET-CRANKSHAFT	STD	01																																

## CAMSHAFT & VALVE MECHANISM

1



## SEC. 130

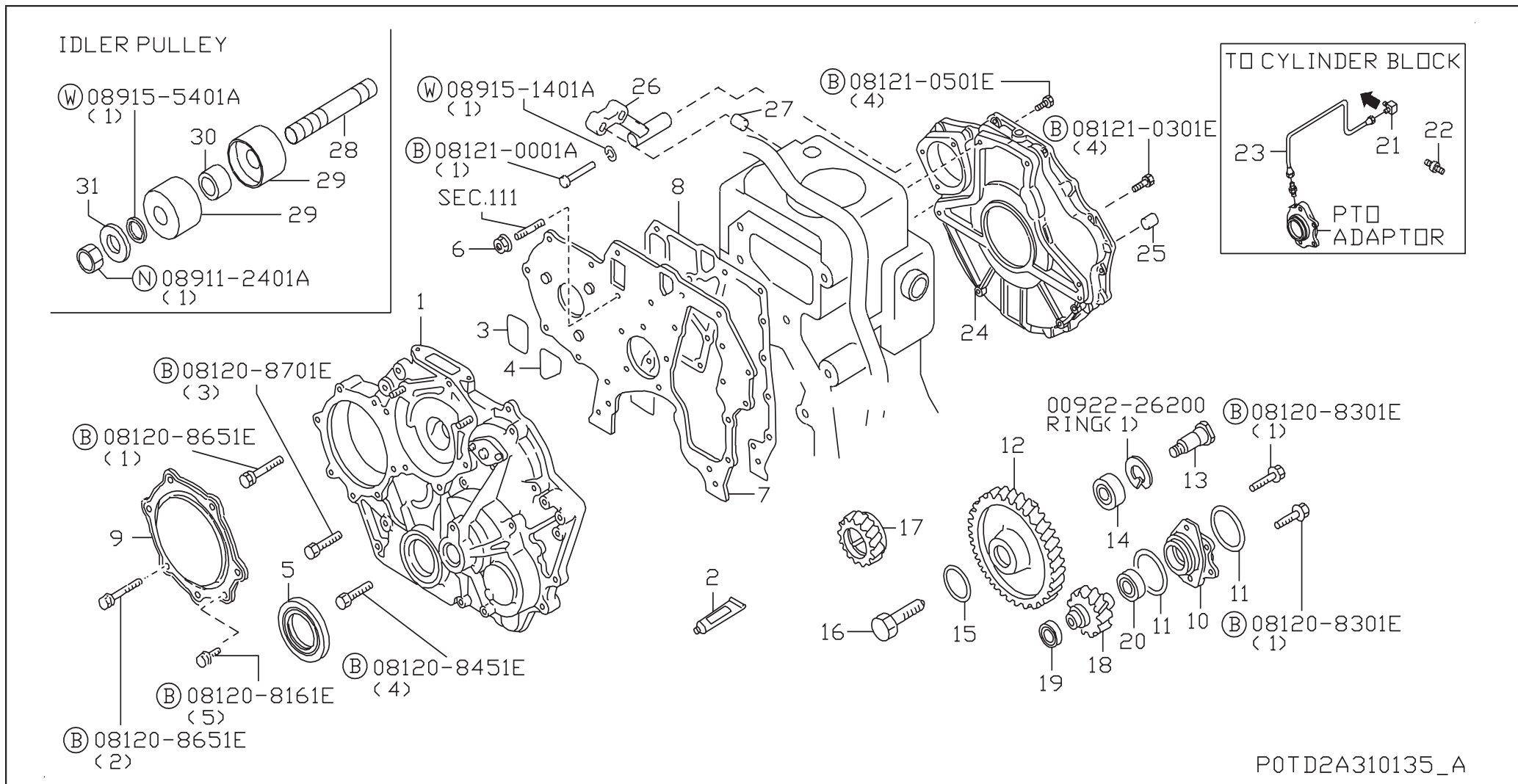
### CAMSHAFT & VALVE MECHANISM

[illegible]

## SEC. 135

### FRONT COVER & FITTING

[200810-      ]





## SEC. 135

### FRONT COVER & FITTING

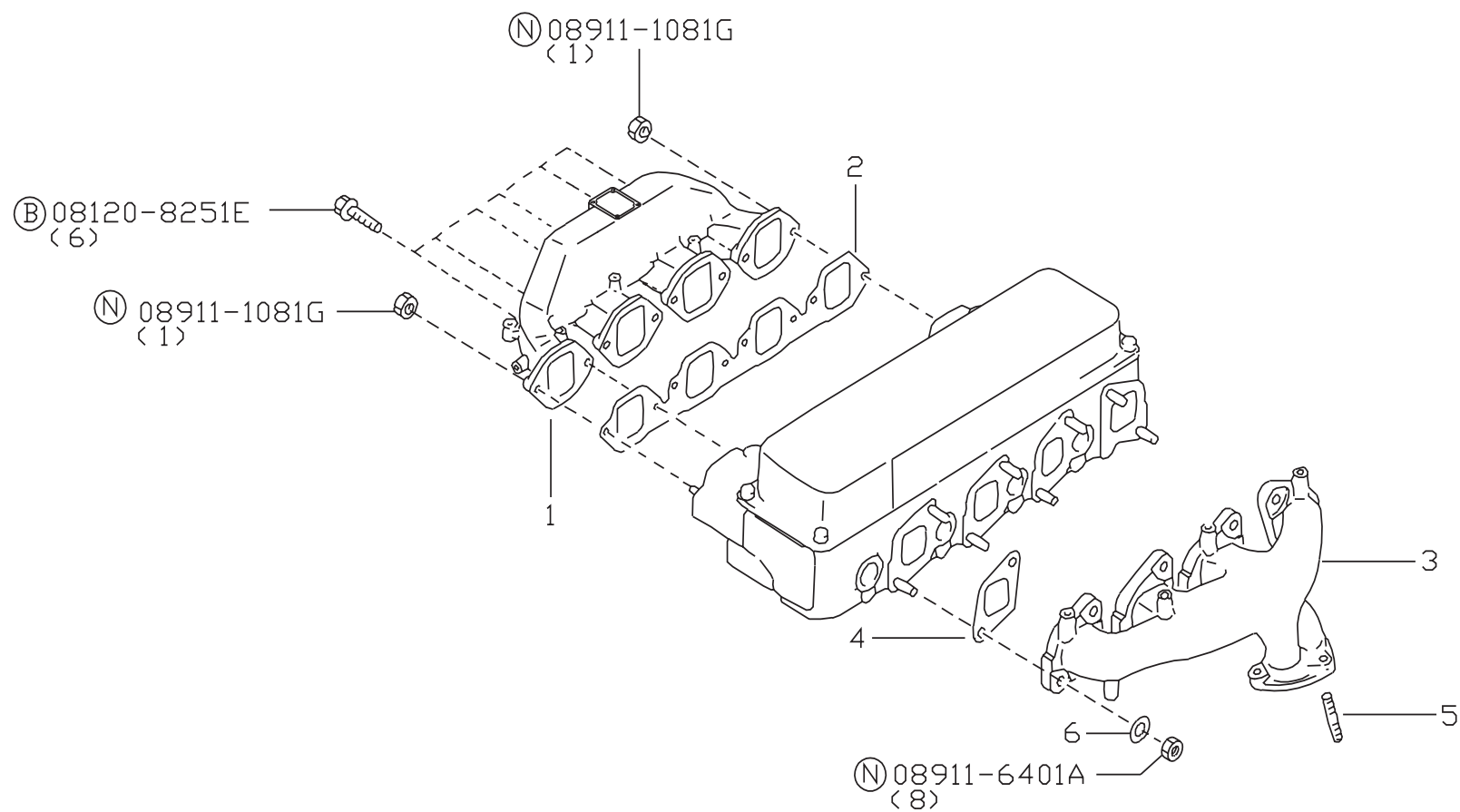
SEC. 135

FRONT COVER & FITTING

										APPLIED MODEL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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# SEC. 140 MANIFOLD

[200810-      ]



P0TD2A310140\_A

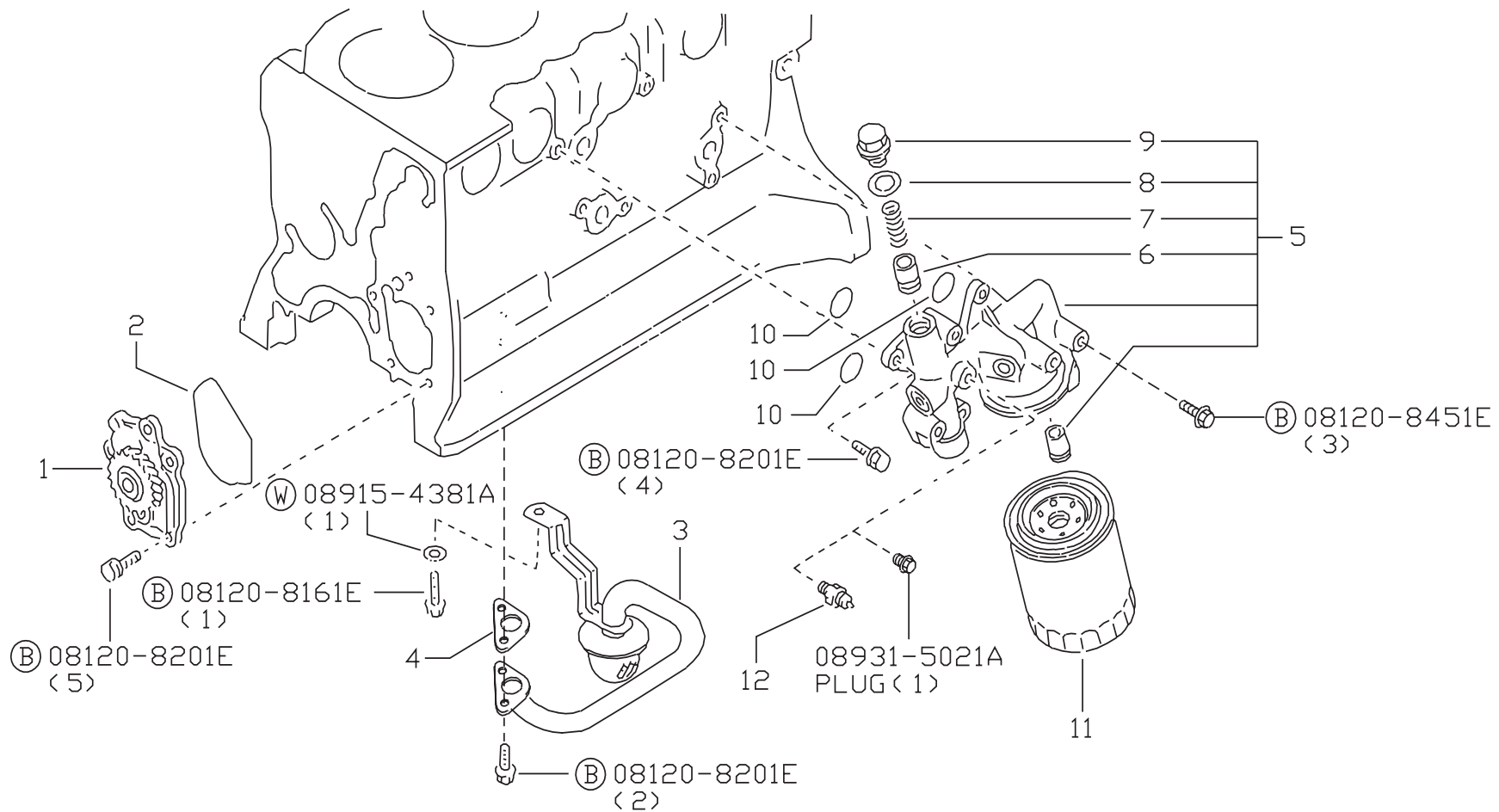
## SEC. 140 MANIFOLD

[illegible]

# SEC. 150

## LUBRICATING SYSTEM

[200810- ]



P0TD2A310150\_A

## SEC. 150

### LUBRICATING SYSTEM

[illegible]

## This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across the entire width of the page, typical of notebook or composition paper. There are no margins, text, or other markings present.

# GROUP INDEX

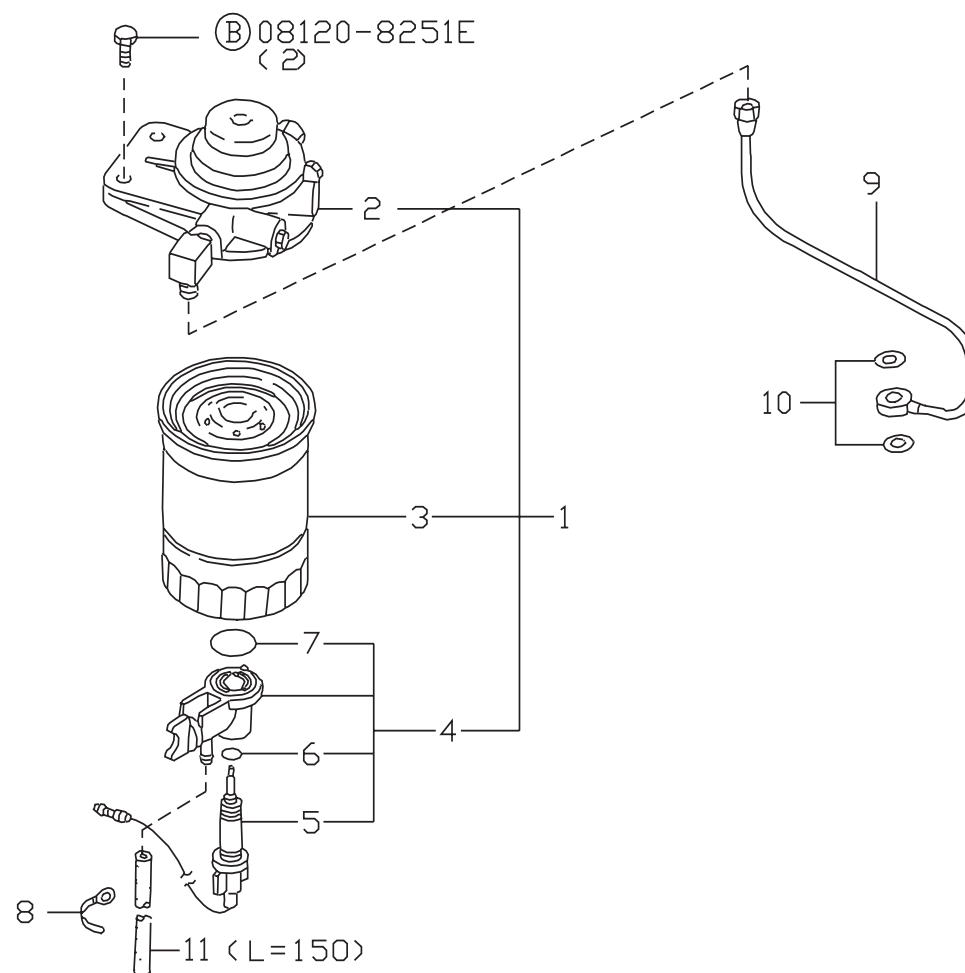
## FUEL, ENGINE & MOTOR CONTROL

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186	FUEL INJECTION PUMP .....	32

B

# **SEC. 164** **FUEL STRAINER & FUEL HOSE**

[200810-        ]



P0TD2A310164\_A



## SEC. 164

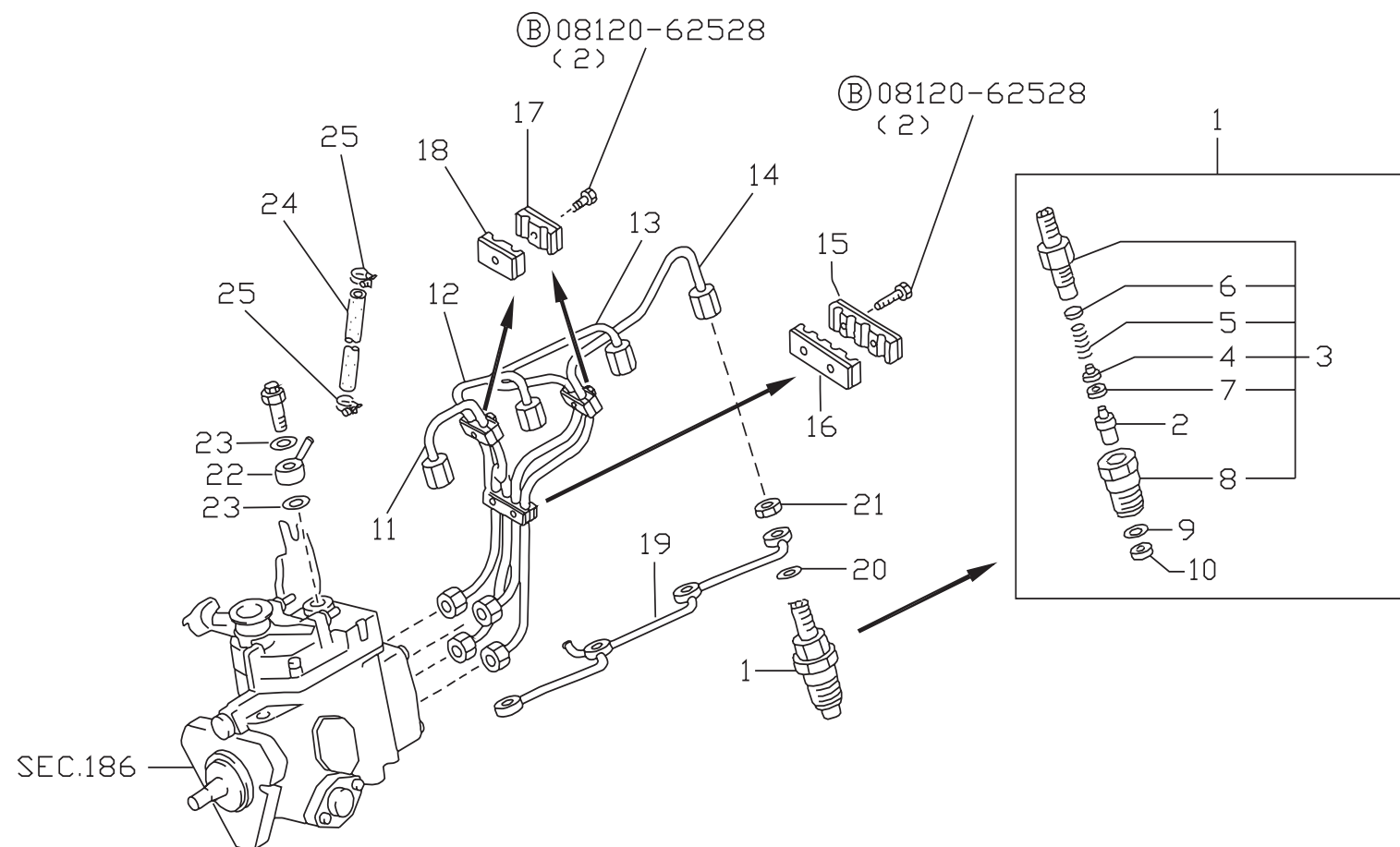
### FUEL STRAINER & FUEL HOSE

[illegible]

# SEC. 185

## FUEL SUPPLY SYSTEM

[200810- ]



P0TD2A310185\_A

## SEC. 185

### FUEL SUPPLY SYSTEM

SEC. 185

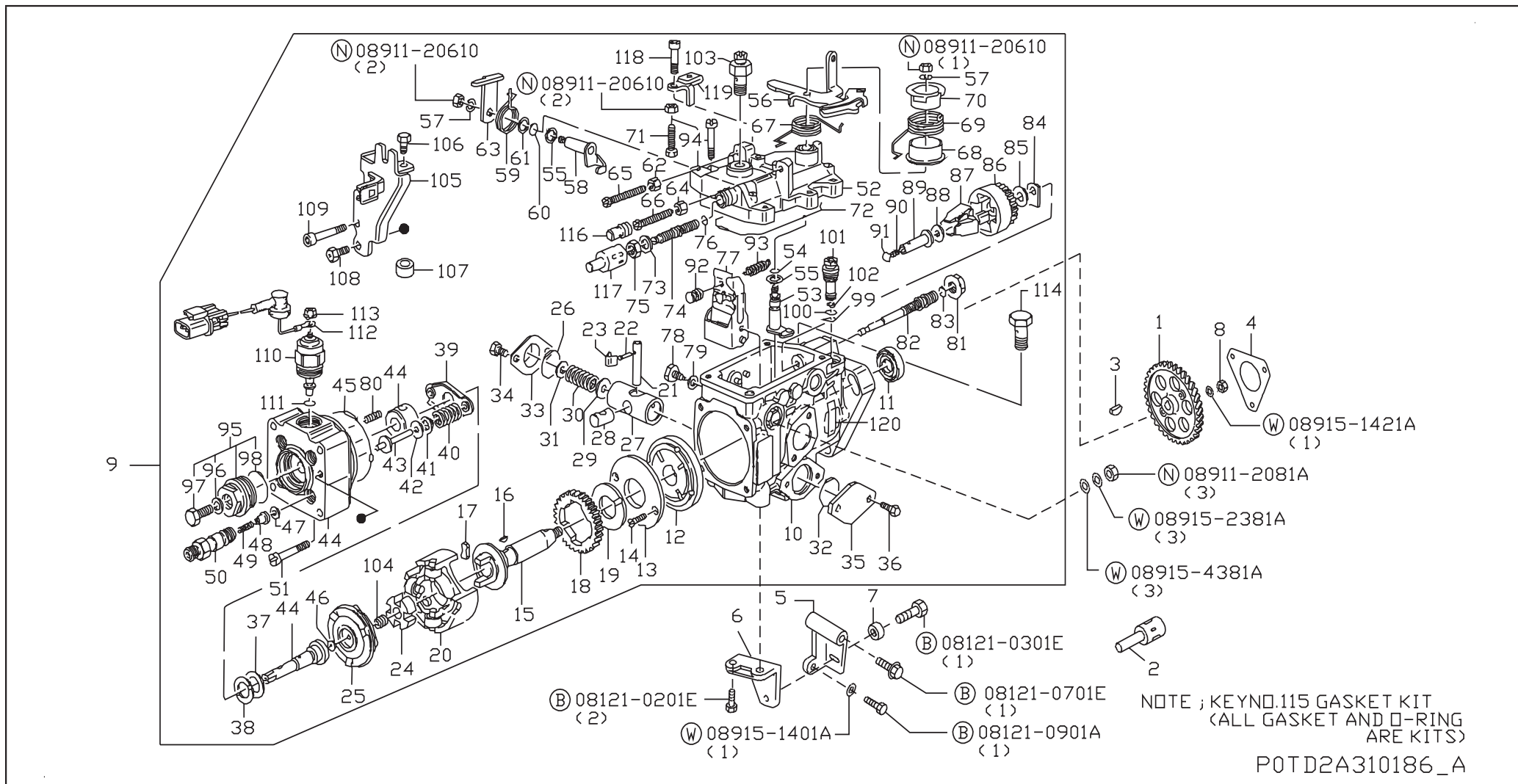
FUEL SUPPLY SYSTEM

										APPLIED MODEL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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# SEC. 186

## FUEL INJECTION PUMP

[200810- ]



# SEC. 186

## FUEL INJECTION PUMP

										APPLIED MODEL																													
										1	0	1	0	0	F	F	4	6	C																				
S	KEY NO.	LEV	PART NO.	PART NAME	SPECIFICATION	QTY	APPLIED DATE	ICANF	FORMER PART NO.	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	1	001	1	16735-40K00	GEAR-DRIVE,INJECTION PUMP	01	0810-			○																													
	2	001	1	19270-35V10	LEVER	01	0810-			○																													
	3	001	1	16742-37501	KEY-WOODRUFF	01	0810-			○																													
	4	001	1	16701-R8100	GASKET-INJECTION PUMP	01	0810-			○																													
	5	001	1	16811-54T00	BRACKET-INJECTION PUMP	01	0810-			○																													
	6	001	1	16814-43G01	SUPPORT-INJECTION PUMP	01	0810-			○																													
	7	001	1	16420-43G00	SHIM	01	0810-			○																													
	8	001	1	01211-01054	NUT	01	0810-			○																													
	9	001	1	16700-40K10	PUMP ASSY-INJECTION	01	0810-			○																													
	10	001	2	16720-43G00	HOUSING-INJECTION PUMP	01	0810-			○																													
	11	001	2	16721-5C900	SEAL-OIL	01	0810-			○																													
	12	001	2	16640-R8100	PUMP ASSY-FEED	01	0810-			○																													
	13	001	2	16854-V0700	COLLAR	01	0810-			○																													
	14	001	2	16855-V0700	SCREW	02	0810-			○																													
	15	001	2	16730-16A00	SHAFT-DRIVE	01	0810-			○																													
	16	001	2	16731-V0700	KEY-WOODRUFF	01	0810-			○																													
	17	001	2	16733-V0701	DAMPER-RUBBER	02	0810-			○																													
	18	001	2	16734-V0700	GEAR-INJECTION	01	0810-			○																													
	19	001	2	16735-V0700	WASHER	01	0810-			○																													
	20	001	2	16741-R8100	ROLLER ASSY	01	0810-			○																													
	21	001	2	16822-V0700	PIN	01	0810-			○																													
	22	001	2	16823-V0700	PIN	01	0810-			○																													
	23	001	2	16824-V0700	CLIP	01	0810-			○																													
	24	001	2	16751-V0700	DISK	01	0810-			○																													
	25	001	2	16750-37N00	CAM-DISC	01	0810-			○																													
	26	001	2	16826-V0700	SEAL-O RING	01	0810-			○																													
	27	001	2	16645-40K00	PISTON	01	0810-			○																													
	28	001	2	16821-V0700	SLIDER	01	0810-			○																													
	29	001	2	16880-V0700	SHIM	01	0810-			○																													
	30	001	2	16825-44G00	SPRING-TIMER	AR	0810-			○																													
	31	001	2	16880-V0700	SHIM	T=0.6	AR	0810-		○																													
		002	2	-V0701	T=0.7	AR	0810-			○																													
		003	2	-V0702	T=0.9	AR	0810-			○																													
		004	2	-V0703	T=1.0	AR	0810-			○																													
		005	2	-V0704	T=1.2	AR	0810-			○																													
		006	2	-V0705	T=2.4	AR	0810-			○																													
	32	001	2	16826-V0700	SEAL-O RING	01	0810-			○																													
	33	001	2	16827-14G03	COVER	01	0810-			○																													
	34	001	2	16815-43G00	BOLT	02	0810-			○																													
	35	001	2	16829-V0700	COVER	01	0810-			○																													

# SEC. 186

## FUEL INJECTION PUMP

										APPLIED MODEL																													
										1	0	1	0	0	F	F	4	6	C																				
S	KEY NO.	LEV	PART NO.	PART NAME	SPECIFICATION	QTY	APPLIED DATE	ICANF	FORMER PART NO.	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	36	001	2	16815-43G00	BOLT		02 0810-			○																													
	37	001	2	16764-V0700	SHIM		01 0810-			○																													
	38	001	2	16765-V0700	WASHER-PLUNGER		01 0810-			○																													
	39	001	2	16766-43G00	SEAT-SPRING, PLUNGER		01 0810-			○																													
	40	001	2	16767-V0700	SPRING-PLUNGER		01 0810-			○																													
	41	001	2	16768-V0700	SEAT-SPRING		02 0810-			○																													
	42	001	2	16882-V0701	SHIM	T=0.8	AR 0810-			○																													
		002	2	-V0702		T=1.0	AR 0810-			○																													
		003	2	-V0703		T=1.2	AR 0810-			○																													
		004	2	-V0704		T=1.5	AR 0810-			○																													
		005	2	-87G00		T=0.9	AR 0810-			○																													
		006	2	-87G01		T=1.1	AR 0810-			○																													
		007	2	-87G02		T=1.3	AR 0810-			○																													
		008	2	-06J00		T=1.4	AR 0810-			○																													
		009	2	-06J01		T=1.6	AR 0810-			○																													
	43	001	2	16550-99005	GUIDE-ROLLER		02 0810-			○																													
	44	001	2	16760-43G00	HEAD-DISTRIBUTOR		01 0810-			○																													
	45	001	2	16781-V0700	SEAL-O RING		01 0810-			○																													
	46	001	2	16884-06J00	SHIM	T=1.94	AR 0810-			○																													
		002	2	16742-R8101		T=2.04	AR 0810-			○																													
		003	2	16884-06J01		T=2.14	AR 0810-			○																													
		004	2	-V0704		T=2.24	AR 0810-			○																													
		005	2	-06J02		T=2.34	AR 0810-			○																													
		006	2	16742-R8106		T=2.44	AR 0810-			○																													
		007	2	16884-06J03		T=2.54	AR 0810-			○																													
		008	2	-V0709		T=2.64	AR 0810-			○																													
		009	2	-06J04		T=1.84	AR 0810-			○																													
	47	001	2	16777-V0701	GASKET-DELIVERY VALVE		04 0810-			○																													
	48	001	2	16776-R8100	VALVE-DELIVERY		04 0810-			○																													
	49	001	2	16775-V0700	SPRING-DELIVERY VALVE		04 0810-			○																													
	50	001	2	16770-V0700	HOLDER-DELIERY VALVE		04 0810-			○																													
	51	001	2	16782-V0700	SCREW		03 0810-			○																													
	52	001	2	19240-40K01	COVER ASSY-GOVERNOR		01 0810-			○																													
	53	001	2	19230-10H00	SHAFT ASSY-CONTROL		01 0810-			○																													
	54	001	2	19235-V0700	SEAL-O RING		01 0810-			○																													
	55	001	2	19236-V0700	WASHER		02 0810-			○																													
	56	001	2	16705-40K00	LEVER-CONTROL	CENTER LINE 111	AR 0810-			○																													
		002	2	-40K01		CENTER LINE 112	AR 0810-			○																													
	57	001	2	19260-37502	WASHER-SPRING		02 0810-			○																													
	58	001	2	19275-40K00	SHAFT-STOP LEVER		01 0810-			○																													

# SEC. 186

## FUEL INJECTION PUMP

										APPLIED MODEL																													
										1	0	1	0	0	F	F	4	6	C																				
S	KEY NO.	LEV	PART NO.	PART NAME	SPECIFICATION	QTY	APPLIED DATE	ICAF	FORMER PART NO.	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	59	001	2	19271-35V00	SPRING		01 0810-			○																													
	60	001	2	19272-35V00	SEAL-O RING		01 0810-			○																													
	61	001	2	19273-35V00	WASHER		01 0810-			○																													
	62	001	2	19243-16A00	NUT-ADJUST		01 0810-			○																													
	63	001	2	19270-35V00	LEVER-STOP		01 0810-			○																													
	64	001	2	19243-16A00	NUT-ADJUST		01 0810-			○																													
	65	001	2	19244-R8800	SCREW		01 0810-			○																													
	66	001	2	19244-06J02	SCREW		01 0810-			○																													
	67	001	2	19221-R8100	SPRING		01 0810-			○																													
	68	001	2	16707-V2100	ANGLE-GOVERNOR LEVER		01 0810-			○																													
	69	001	2	16702-54T00	SPRING-RETURN		01 0810-			○																													
	70	001	2	16706-V2100	SPRING-SEAT		01 0810-			○																													
	71	001	2	19264-35V00	BOLT		01 0810-			○																													
	72	001	2	19242-69T00	SEAL-RING, COVER		01 0810-			○																													
	73	001	2	19296-V0700	WASHER		01 0810-			○																													
	74	001	2	19290-43G00	SCREW	L=53	AR 0810-			○																													
		002	2	-43G01		L=55	AR 0810-			○																													
		003	2	-06J01		L=55	AR 0810-			○																													
		004	2	-43G02		L=57	AR 0810-			○																													
	75	001	2	19297-V0700	NUT		01 0810-			○																													
	76	001	2	19295-V0700	SEAL-O RING		01 0810-			○																													
	77	001	2	19251-40K00	LEVER-GOVERNOR		01 0810-			○																													
	78	001	2	19252-43G00	BOLT		02 0810-			○																													
	79	001	2	19253-V0700	GASKET		02 0810-			○																													
	80	001	2	19244-43G00	SPRING		02 0810-			○																													
	81	001	2	19212-35V00	NUT		01 0810-			○																													
	82	001	2	19210-16A00	SHAFT-GOVERNOR		01 0810-			○																													
	83	001	2	19211-V0700	SEAL-O RING		01 0810-			○																													
	84	001	2	19208-V0700	SHIM	T=1.05	AR 0810-			○																													
		002	2	-V0701		T=1.25	AR 0810-			○																													
		003	2	-V0702		T=1.45	AR 0810-			○																													
		004	2	-V0703		T=1.65	AR 0810-			○																													
		005	2	-V0704		T=1.85	AR 0810-			○																													
	85	001	2	19209-V0700	WASHER		01 0810-			○																													
	86	001	2	19200-V0700	HOLDER-FLY WEIGHT		01 0810-			○																													
	87	001	2	19202-40K00	WEIGHT KIT-FLY		01 0810-			○																													
	88	001	2	19204-40K00	SHAFT-GOVERNORCOVER		01 0810-			○																													
	89	001	2	19205-40K02	SLEEVE-GOVERNOR		01 0810-			○																													
	90	001	2	19206-01T00	CAP-GOVERNOR		01 0810-			○																													
	91	001	2	19207-40K00	PLUG	L=2.4	AR 0810-			○																													

## SEC. 186

### FUEL INJECTION PUMP

SEC. 186

FUEL INJECTION PUMP

										APPLIED MODEL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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## SEC. 186

### FUEL INJECTION PUMP

[illegible]

## This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across its entire width, typical of notebook paper. The background is white, and there are no margins, text, or other markings present.

# GROUP INDEX

## EXHAUST & COOLING

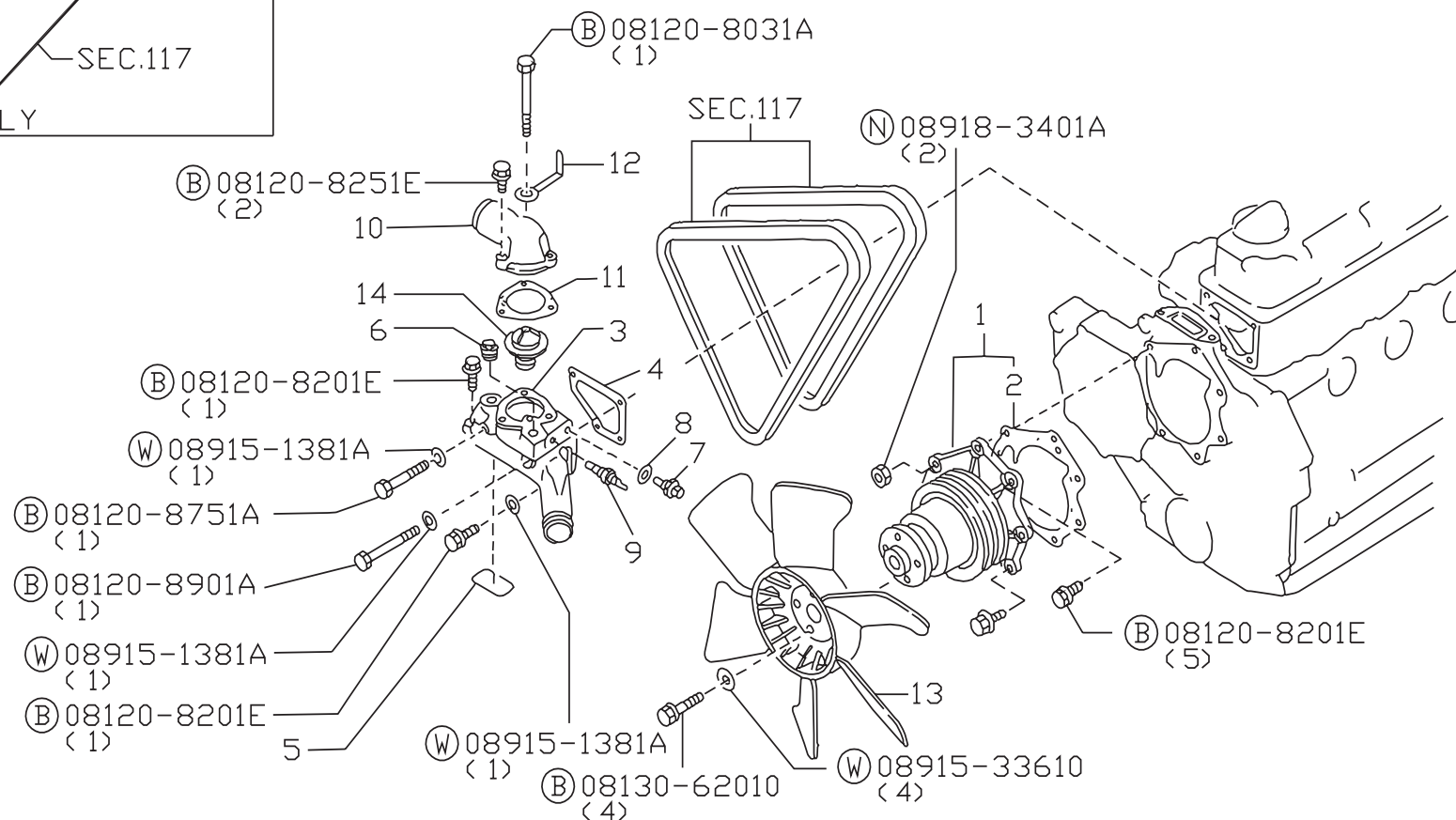
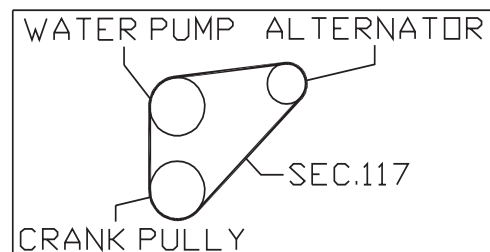
SEC. NO.	SECTION NAME	PAGE NO.
210	WATER PUMP, COOLING FAN & THERMOSTAT .....	40
213	OIL COOLER .....	42

C

## SEC. 210

### WATER PUMP, COOLING FAN & THERMOSTAT

[200810-      ]



P0TD2A310210\_A

## SEC. 210

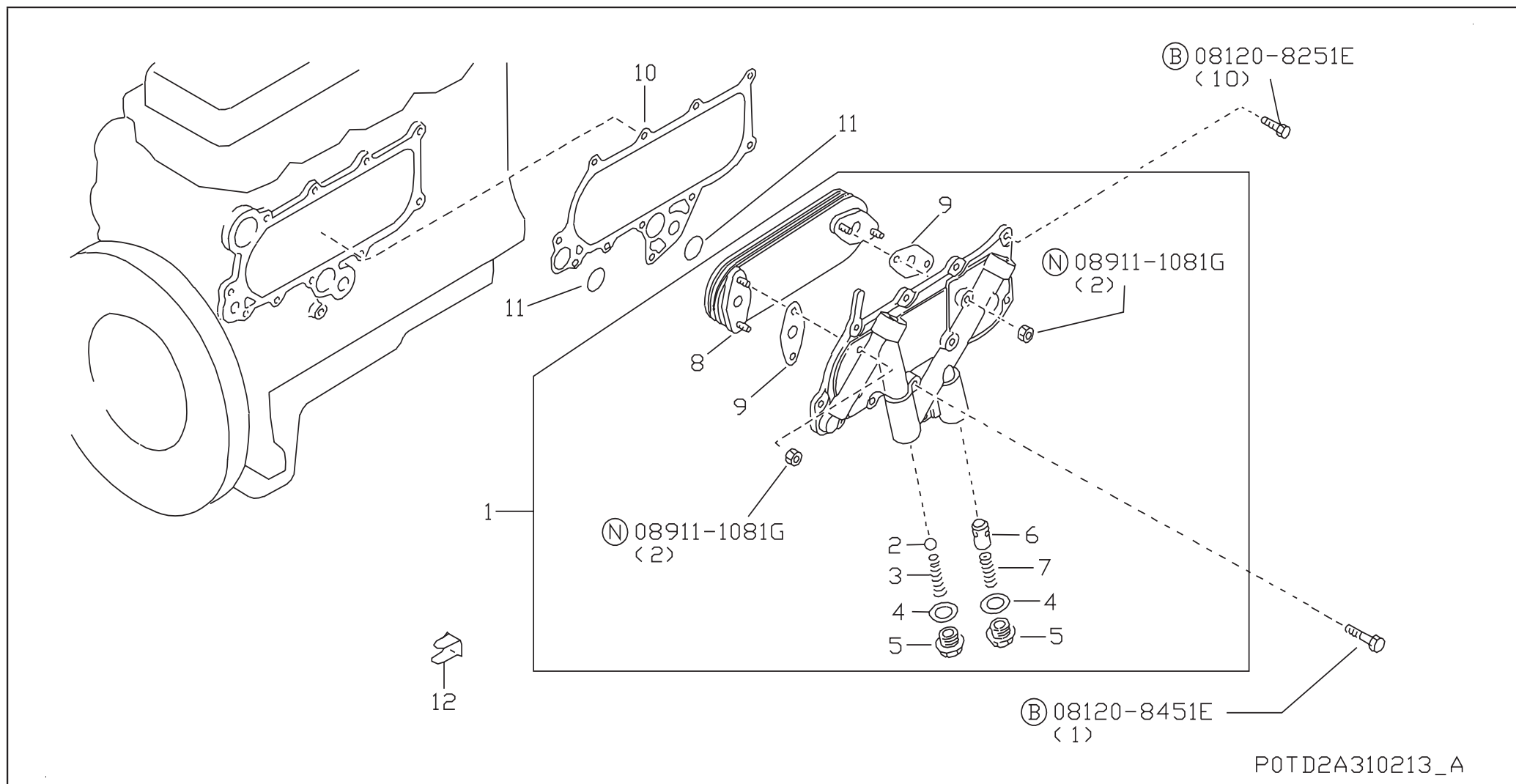
### WATER PUMP, COOLING FAN & THERMOSTAT

[illegible]

# SEC. 213

## OIL COOLER

[200810-     ]



## SEC. 213

### OIL COOLER

[illegible]

[illegible]



# GROUP INDEX

## ENGINE ELECTRICAL

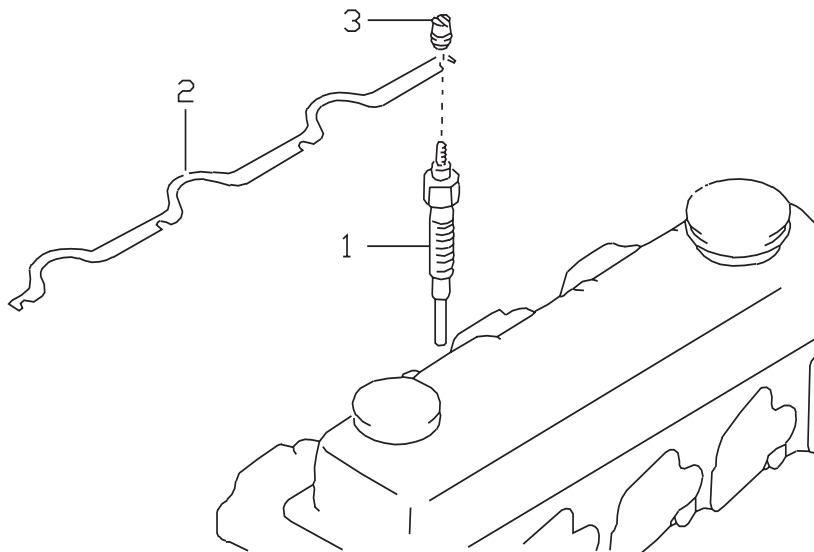
SEC. NO.	SECTION NAME	PAGE NO.
220	IGNITION SYSTEM .....	46
230	ALTERNATOR FITTING .....	48
231	ALTERNATOR .....	50
232	VACUUM PUMP .....	52
233	STARTER MOTOR .....	54

D

## SEC. 220

### IGNITION SYSTEM

[200810-      ]



P0TD2A310220\_A

## SEC. 220

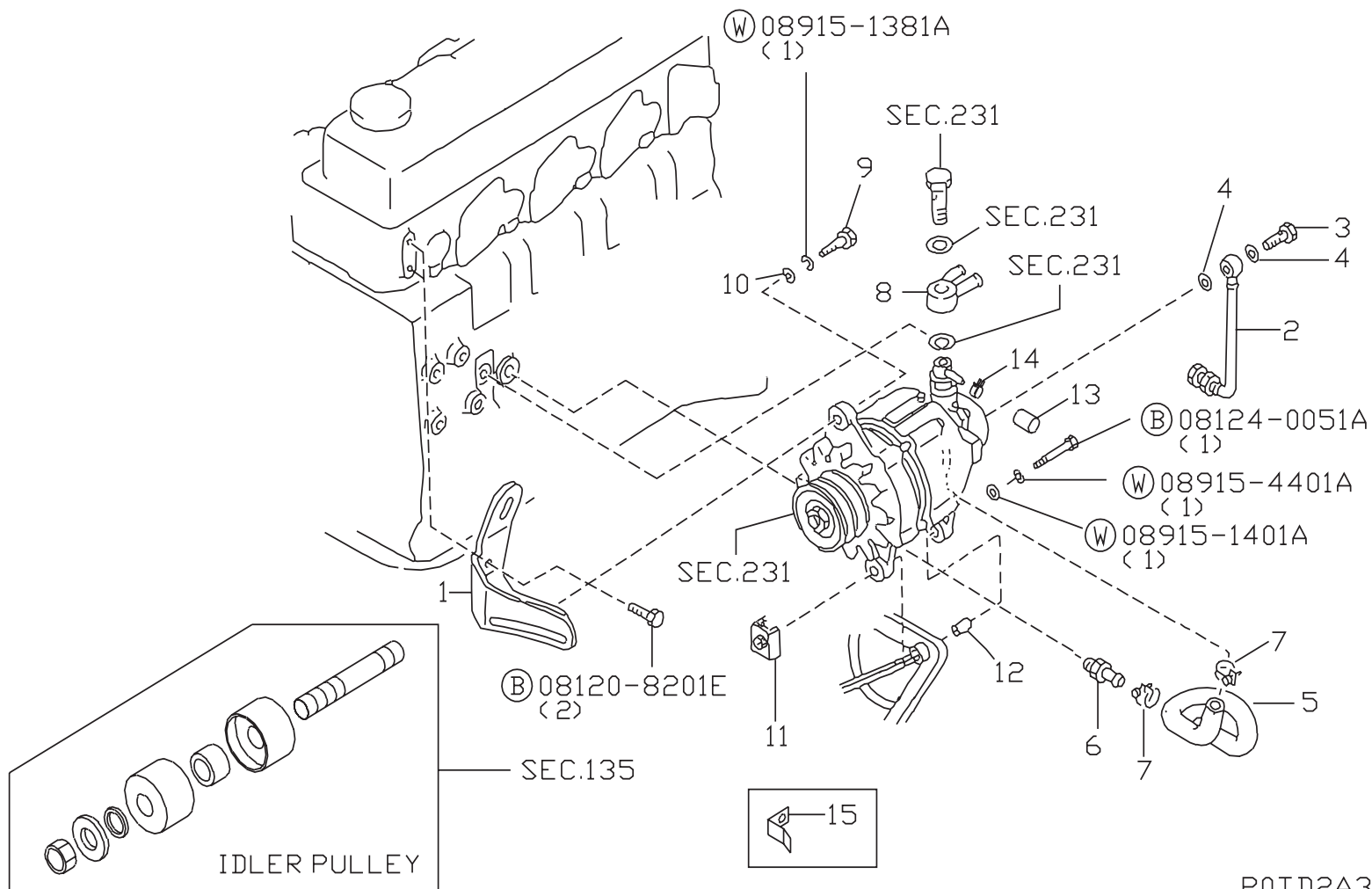
### IGNITION SYSTEM

[illegible]

## SEC. 230

### ALTERNATOR FITTING

[200810- ]



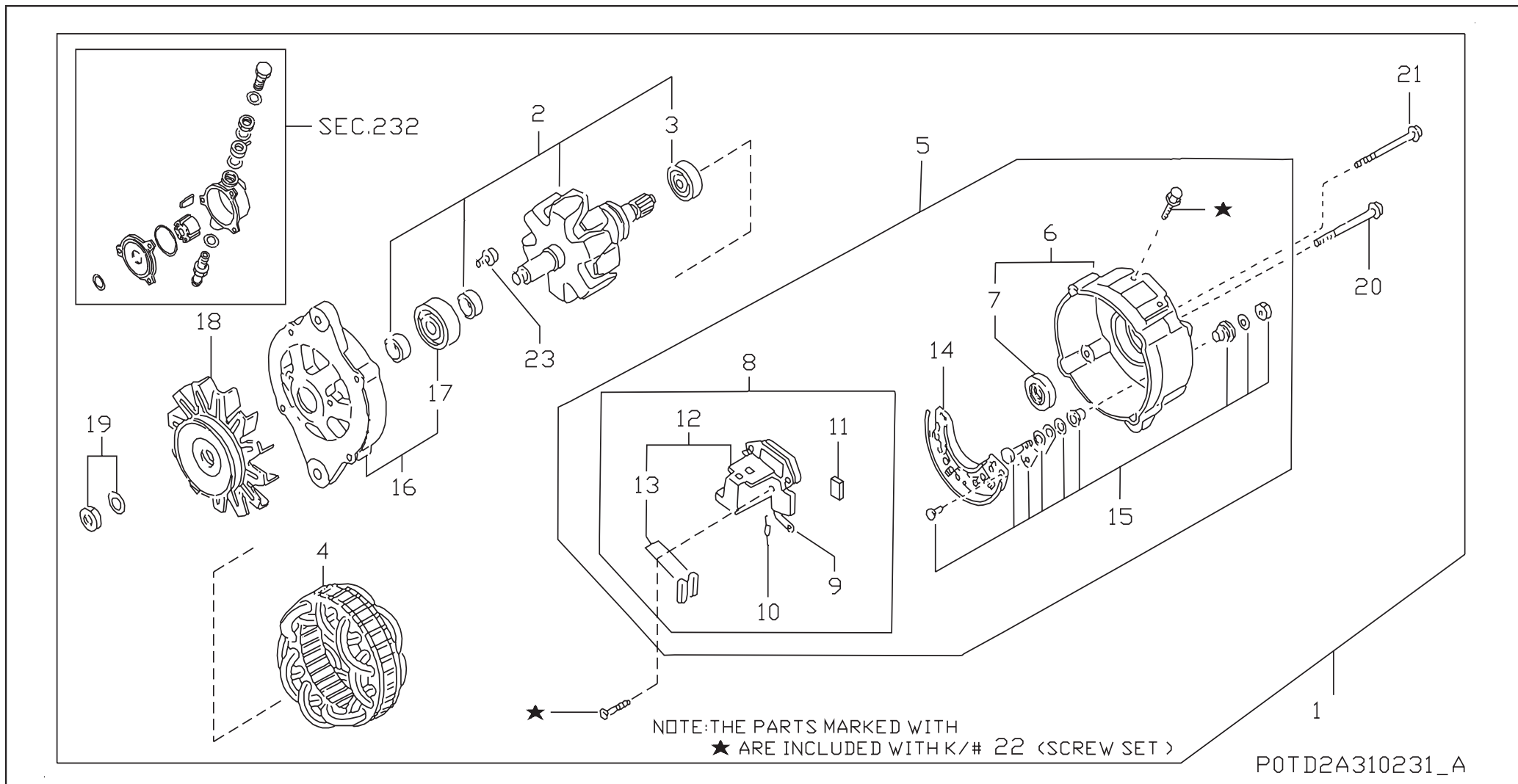
## SEC. 230

### ALTERNATOR FITTING

[illegible]

# SEC. 231 ALTERNATOR

[200810-     ]



## SEC. 231 ALTERNATOR

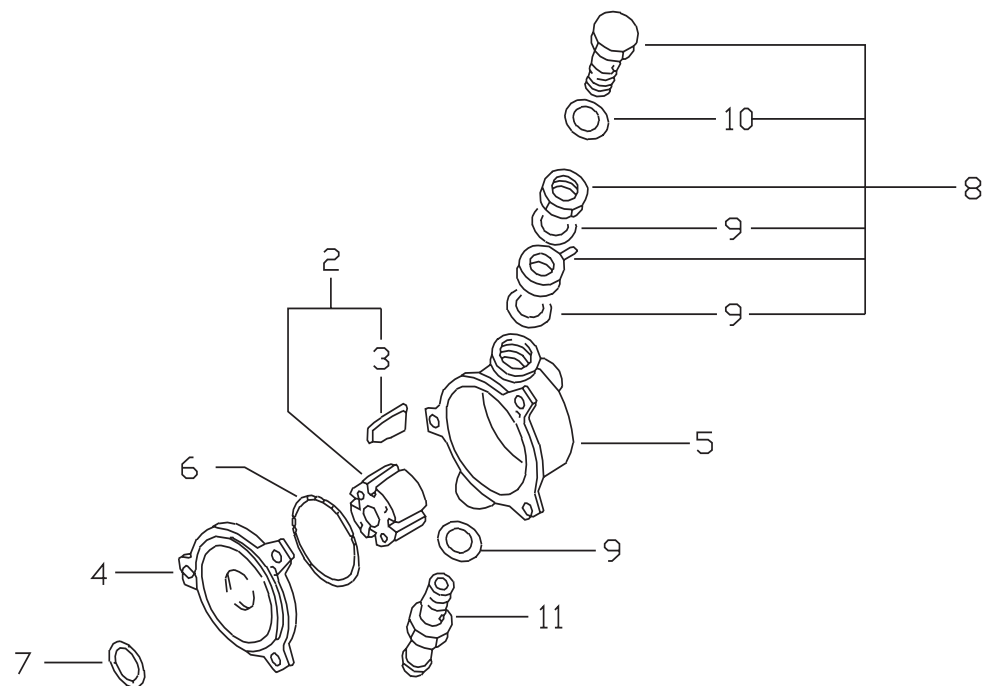
[illegible]

## SEC. 232

### VACUUM PUMP

[200810-       ]

NOTE; KEY NO.1 PUMP ASSY-VACUUM  
INCLUDES KEY NO.2-11



P0TD2A310232\_A



## SEC. 232

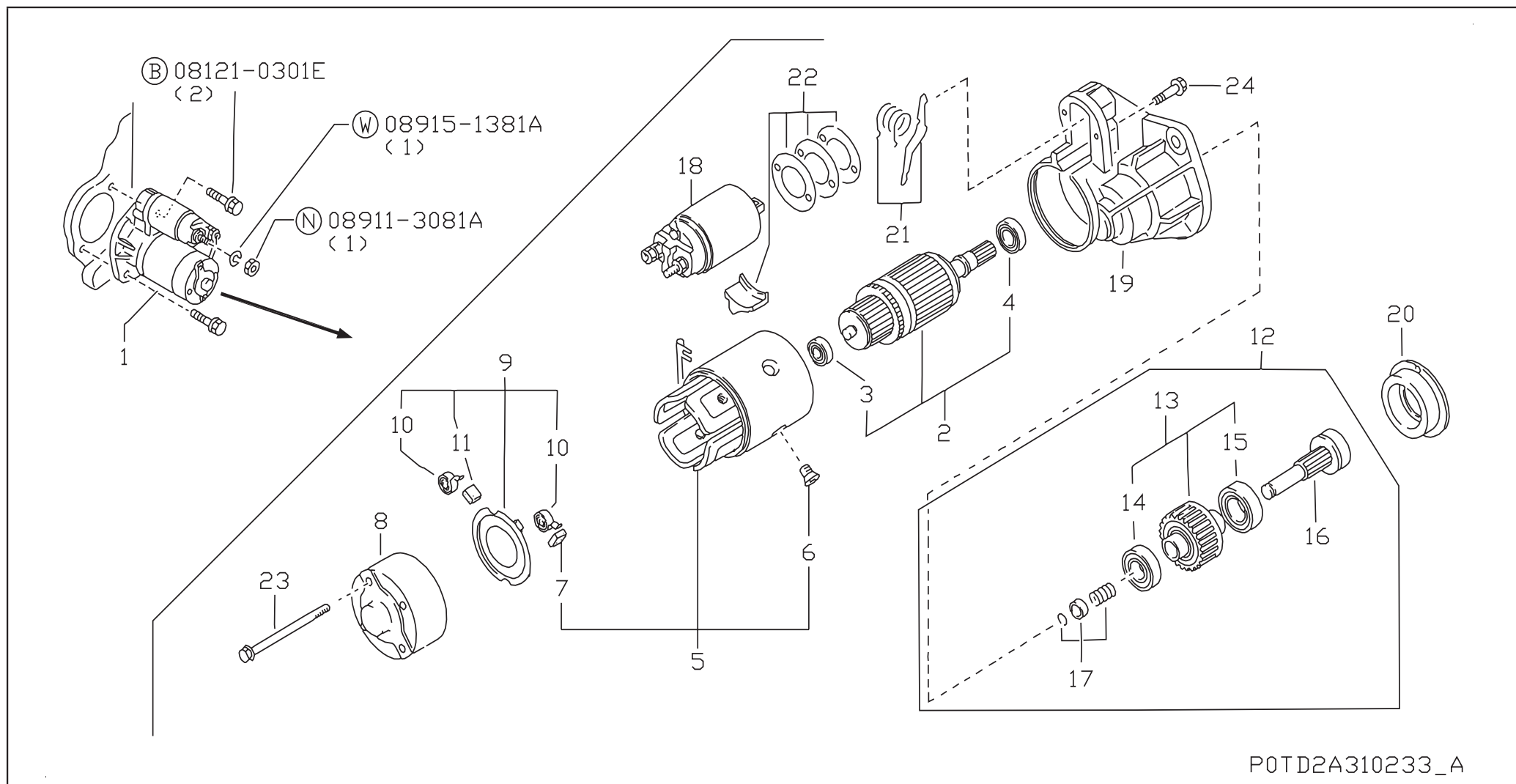
### VACUUM PUMP

[illegible]

# SEC. 233

## STARTER MOTOR

[200810- ]



P0TD2A310233\_A

## SEC. 233

### STARTER MOTOR

SEC. 233  
STARTER MOTOR

											APPLIED MODEL																													
											1	0	1	0	0																									
											F	F	4	6	C																									
S	KEY NO.	LEV	PART NO.	PART NAME	SPECIFICATION	QTY	APPLIED DATE	ICANF	FORMER PART NO.	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
	1	001	1	23300-6K200	MOTOR ASSY-STARTER	12V-2.5KW	01	0810-		0																														
	2	001	2	23310-0Y000	ARMATURE ASSY-STARTER		01	0810-		0																														
	3	001	3	23319-M4900	BEARING		01	0810-		0																														
	4	001	3	23338-M4900	BEARING-REAR COVER		01	0810-		0																														
	5	001	2	23306-6T000	COIL ASSY-FIELD		01	0810-		0																														
	6	001	3	23305-09500	SCREW-POLECORE SET		04	0810-		0																														
	7	001	3	23379-57J05	BRUSH-PLUS		02	0810-		0																														
	8	001	2	23337-0Y000	COVER ASSY-REAR		01	0810-		0																														
	9	001	2	23378-57J05	HOLDER ASSY-BRUSH		01	0810-		0																														
	10	001	3	23333-W2500	SPRING-BRUSH		04	0810-		0																														
	11	001	3	23379-57J05	BRUSH-MINUS		02	0810-		0																														
	12	001	2	23312-6T000	PINION ASSY-ARMATURE		01	0810-		0																														
	13	001	3	23354-6T000	CLUTCH ASSY		01	0810-		0																														
	14	001	4	23358-07G00	BEARING		01	0810-		0																														
	15	001	4	23363-07G00	BEARING		01	0810-		0																														
	16	001	3	23357-6T000	SHAFT ASSY-PINION		01	0810-		0																														
	17	001	3	23465-M4900	STOPPER SET-PINION		01	0810-		0																														
	18	001	2	23343-6T000	SWITCH ASSY-MAGNETIC		01	0810-		0																														
	19	001	2	23318-6T000	CASE ASSY-GEAR		01	0810-		0																														
	20	001	2	23341-10G00	RETAINER-BEARING		01	0810-		0																														
	21	001	2	23322-6T000	LEVER SET-SHIFT		01	0810-		0																														
	22	001	2	23470-6T000	COVER SET-DUST		01	0810-		0																														
	23	001	2	23340-0Y000	BOLT-THROUGH		02	0810-		0																														
	24	001	2	23344-57J05	BOLT		02	0810-		0																														

## This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across the entire width of the page, typical of notebook or legal stationery. The background is a solid off-white color, and there are no margins, text, or other markings present.

## **ALPHABETICAL PART NAME INDEX**

# ALPHABETICAL PART NAME INDEX

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ARMATURE ASSY-STARTER .....	233	55	CAM-DISC .....	186	33	ENGINE ASSY-SHORT .....	101	5
<b><u>B</u></b>			CAMSHAFT ASSY .....	130	19	<b><u>F</u></b>		
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BEARING-BALL .....	135	21	CAP-VALVE .....	150	25	<b><u>G</u></b>		
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	230	49		230	49	GASKET-OIL COOLER .....	213	43
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BOLT-OIL JET .....	110	9	COVER ASSY-FRONT .....	135	21	GASKET-OIL STRAINER .....	150	25
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BRACKET-HID OIL PUMP .....	135	21	<b><u>D</u></b>			GAUGE ASSY-OIL LEVEL .....	110	9
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16880-V0703 .. 186 .....	33		19212-35V00 .. 186 .....	35		21200-05D02 .. 210 .....	41		23465-M4900 .. 233 .....	55						
16880-V0704 .. 186 .....	33		19221-R8100 .. 186 .....	35		21304-34N00 .. 213 .....	43		23470-6T000 .. 233 .....	55						
16880-V0705 .. 186 .....	33		19230-10H00 .. 186 .....	34		21305-54T0A .. 213 .....	43		23528-18G0A .. 231 .....	51						
16882-06J00 .. 186 .....	34		19235-V0700 .. 186 .....	34		21334-02N00 .. 150 .....	25		24210-S090A .. 230 .....	49						
16882-06J01 .. 186 .....	34		19236-V0700 .. 186 .....	34		.. 213 .....	43		24211-89944 .. 111 .....	11						
16882-87G00 .. 186 .....	34		19240-40K01 .. 186 .....	34		21334-05D04 .. 213 .....	43		.. 164 .....	29						
16882-87G01 .. 186 .....	34		19242-69T00 .. 186 .....	35		21355-54T00 .. 213 .....	43		.. 210 .....	41						
16882-87G02 .. 186 .....	34		19243-16A00 .. 186 .....	35		22316-T820D .. 118 .....	15		.. 213 .....	43						
16882-V0701 .. 186 .....	34		19243-43G00 .. 186 .....	36		22630-10G00 .. 210 .....	41		25080-89903 .. 210 .....	41						
16882-V0702 .. 186 .....	34		19244-06J00 .. 186 .....	36		23100-02N2A .. 231 .....	51		25240-Z550A .. 150 .....	25						
16882-V0703 .. 186 .....	34		19244-06J01 .. 186 .....	36		23102-R8101 .. 231 .....	51									
16882-V0704 .. 186 .....	34		19244-06J02 .. 186 .....	35		23108-02N2A .. 231 .....	51									
16884-06J00 .. 186 .....	34		19244-43G00 .. 186 .....	35		23118-43G0A .. 231 .....	51									
16884-06J01 .. 186 .....	34		19244-R8800 .. 186 .....	35		23120-58S00 .. 231 .....	51		30412-P5100 .. 110 .....	9						
16884-06J02 .. 186 .....	34		19247-R8300 .. 186 .....	36		23127-43G08 .. 231 .....	51		30430-90013 .. 135 .....	21						
16884-06J03 .. 186 .....	34		19247-V0700 .. 186 .....	36		23129-05E06 .. 231 .....	51		33296-43G00 .. 230 .....	49						
16884-06J04 .. 186 .....	34		19247-W3300 .. 186 .....	37		23131-16A0A .. 231 .....	51		33320-40K00 .. 135 .....	21						
16884-V0704 .. 186 .....	34		19251-40K00 .. 186 .....	35		23131-W170A .. 231 .....	51		33378-40K00 .. 135 .....	21						
16884-V0709 .. 186 .....	34		19252-43G00 .. 186 .....	35		23135-V6600 .. 231 .....	51		33379-40K00 .. 135 .....	21						
17521-41K00 .. 164 .....	29		19253-V0700 .. 186 .....	35		23137-V7201 .. 231 .....	51									
19200-V0700 .. 186 .....	35		.. 186 .....	36		23142-V6600 .. 231 .....	51									
19202-40K00 .. 186 .....	35		19260-37502 .. 186 .....	34		23150-43G0A .. 231 .....	51									
19204-40K00 .. 186 .....	35		19264-35V00 .. 186 .....	35		23153-43G0A .. 231 .....	51		69170-L1400 .. 135 .....	21						
19205-40K02 .. 186 .....	35		19264-40K01 .. 186 .....	36		23156-02N0A .. 231 .....	51		69190-41K01 .. 135 .....	21						
19206-01T00 .. 186 .....	35		19270-35V00 .. 186 .....	35		23183-43G1A .. 231 .....	51									
19207-1H600 .. 186 .....	36		19270-35V10 .. 186 .....	33		23200-05E0A .. 231 .....	51									

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\* FIRST EDITION : FEBRUARY 2011

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## 1. REMARKS ON THE PARTS CATALOG

This parts catalog has the information on the spare parts for Transmission (for TD27 engine), going back to September 1999 when the Transmission was introduced.

Please note that the contents of this parts catalog are subject to change, deletion, and non-sale without prior notice.

Please note that this parts catalog does not indicate how to service forklift trucks.

Whether all or partial, photocopying is prohibited without prior consent of Nissan.

## 2. ENGINE MODELS HEREIN

Model No.	Applied Model	Start of Production	Specification
1	31010-64K00	September, 1999	TD27

## 3. CATALOG APPLIED

The symbol and abbreviation are used in this particular note space as follows.

However, the supplier type and the general name are not indicated on this list.

Catalog Applied	Meaning	Example	Catalog Applied	Meaning	Example
*	Optional Equipment		STD	Standard	STD
AR	As Required		T=∼	Thickness (mm)	T=0.01
D=	Diameter (mm)	D=10	W/∼	With	W/RUB
F/∼	Exclusive Use	F/GAS	W/O∼	Without	W/O RUB
L=	Length (mm)	L=910	Z=∼	Number of Gear Teeth	Z=17
SELECT	Selection Use	SELECT L=19.5	FR	Front	F/FR
			RR	Rear	F/RR
SELECT USE	Proper Use	SELECT USE	RH	Right	F/RH
			LH	Left	F/LH

#### 4. WHAT EACH DESCRIPTION INDICATES

\* : Non-sale

Illustration No

Part Structure

Interchangeability

S	KEY NO.	L E V	PART NO.	PART NAME	SPECIFICATION	Q T Y	APPLIED DATE	ICA NF	FORMER PART NO.	APPLIED MODEL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	1 001 1		25230-41H02	RELAY ASSY	1M	02	0602-			K G I L 1 5 U																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

## 5. INTERCHANGEABILITY

- 2-2. : A new part can supersede a former one, and vice versa.  
 2-0. : A new part can supersede a former one, but not vice versa.  
 0-2. : A former part can supersede a new one, but not vice versa.  
 0-0. : There is no interchangeability between the new and former parts.  
 5-0. : A new part can supersede a former one as a set substitute.  
 7-0. : A new part can supersede a former one under some conditions.

6. The "Level" column indicates the assembly level relationship among the components.

- Level 1 ..... Parent part  
Level 2 ..... Part subordinate to Level 1  
Level 3 ..... Part subordinate to Level 2



# GENERAL INDEX

A POWER TRAIN

ALPHA. PART NAME INDEX

PART NO. INDEX



# SECTION INDEX

[A]

## POWER TRAIN

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311	TORQUE CONVERTER CASE & HOUSING (ATM) .....	6
313	OIL PUMP PARTS (ATM) .....	8
314	GOVERNOR & GEAR PARTS (ATM) .....	10
315	CLUTCH & BRAKE BAND (ATM) .....	12
317	CONTROL VALVE (ATM) .....	16
380	FINAL DRIVE ASSEMBLY .....	18

# GROUP INDEX

## POWER TRAIN

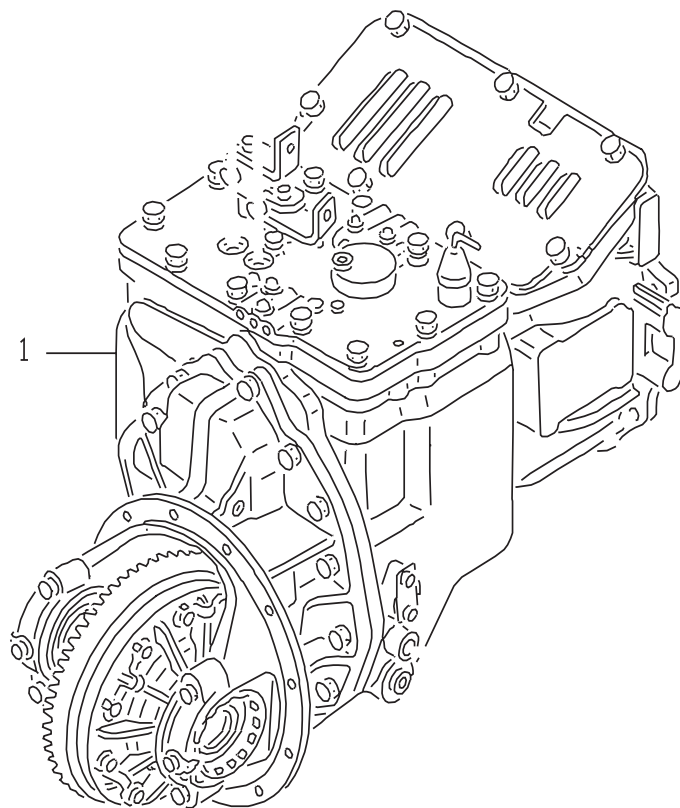
SEC. NO.	SECTION NAME	PAGE NO.
310	TRANSMISSION ASSEMBLY & FITTING (ATM).....	4
311	TORQUE CONVERTER CASE & HOUSING (ATM) .....	6
313	OIL PUMP PARTS (ATM) .....	8
314	GOVERNOR & GEAR PARTS (ATM) .....	10
315	CLUTCH & BRAKE BAND (ATM) .....	12
317	CONTROL VALVE (ATM) .....	16
380	FINAL DRIVE ASSEMBLY .....	18

A

## SEC. 310

### TRANSMISSION ASSEMBLY & FITTING (ATM)

[199909-      ]



P0TD2B310310\_A

## SEC. 310

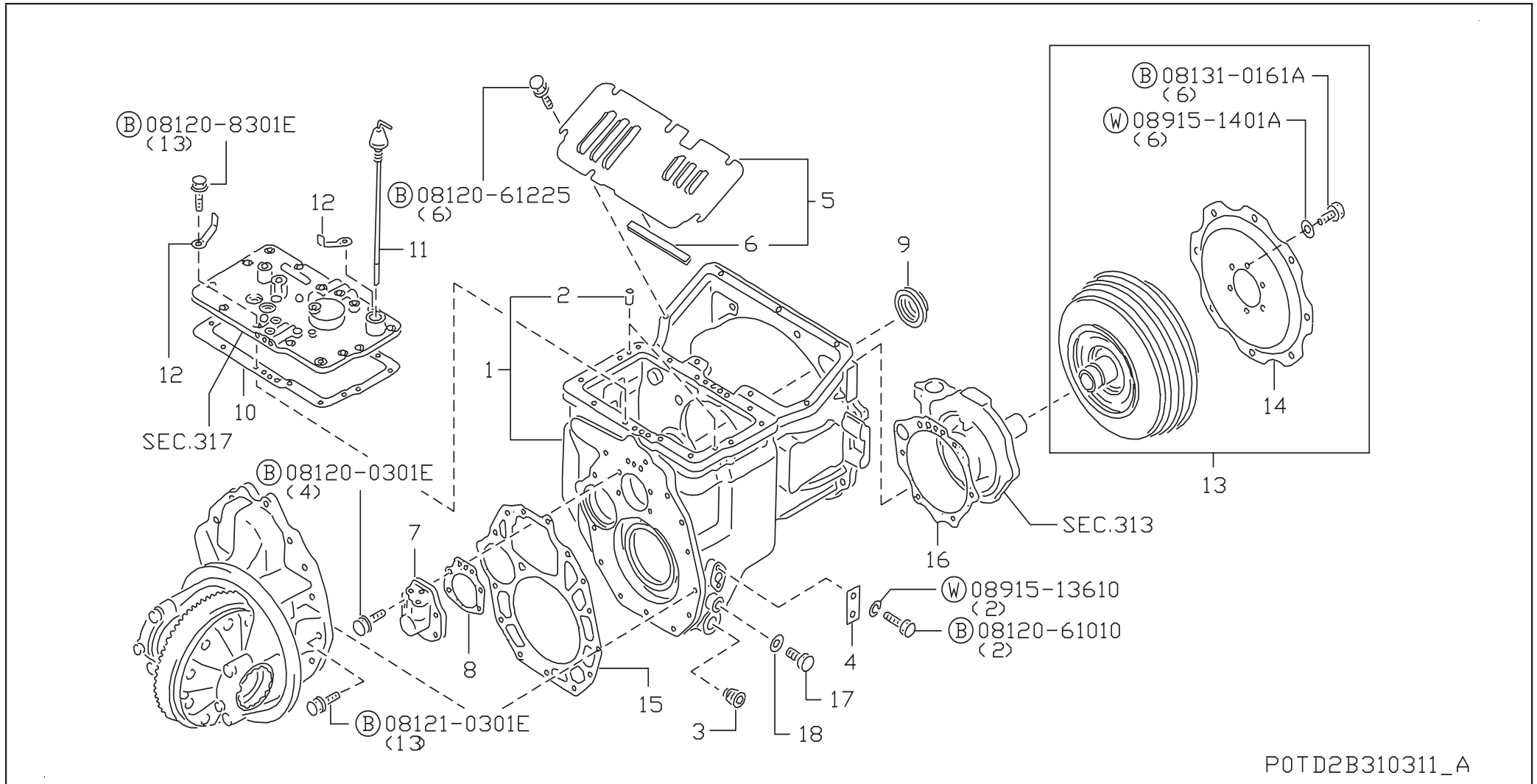
### TRANSMISSION ASSEMBLY & FITTING (ATM)

[illegible]

## SEC. 311

### TORQUE CONVERTER CASE & HOUSING (ATM)

[199909- ]



## SEC. 311

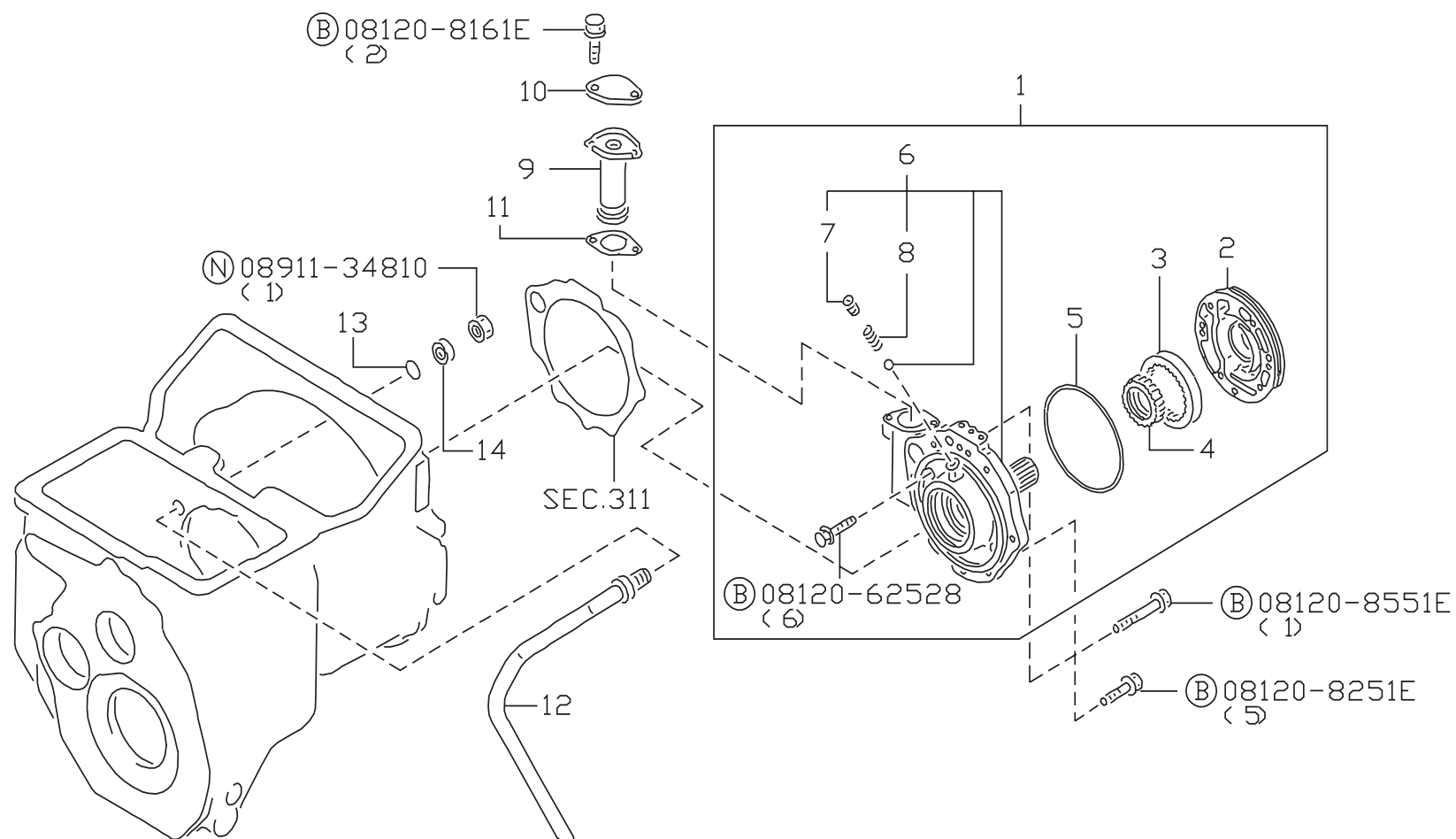
### TORQUE CONVERTER CASE & HOUSING (ATM)

[illegible]

# SEC. 313

## OIL PUMP PARTS (ATM)

[199909-      ]



P0TD2B310313\_A

## SEC. 313

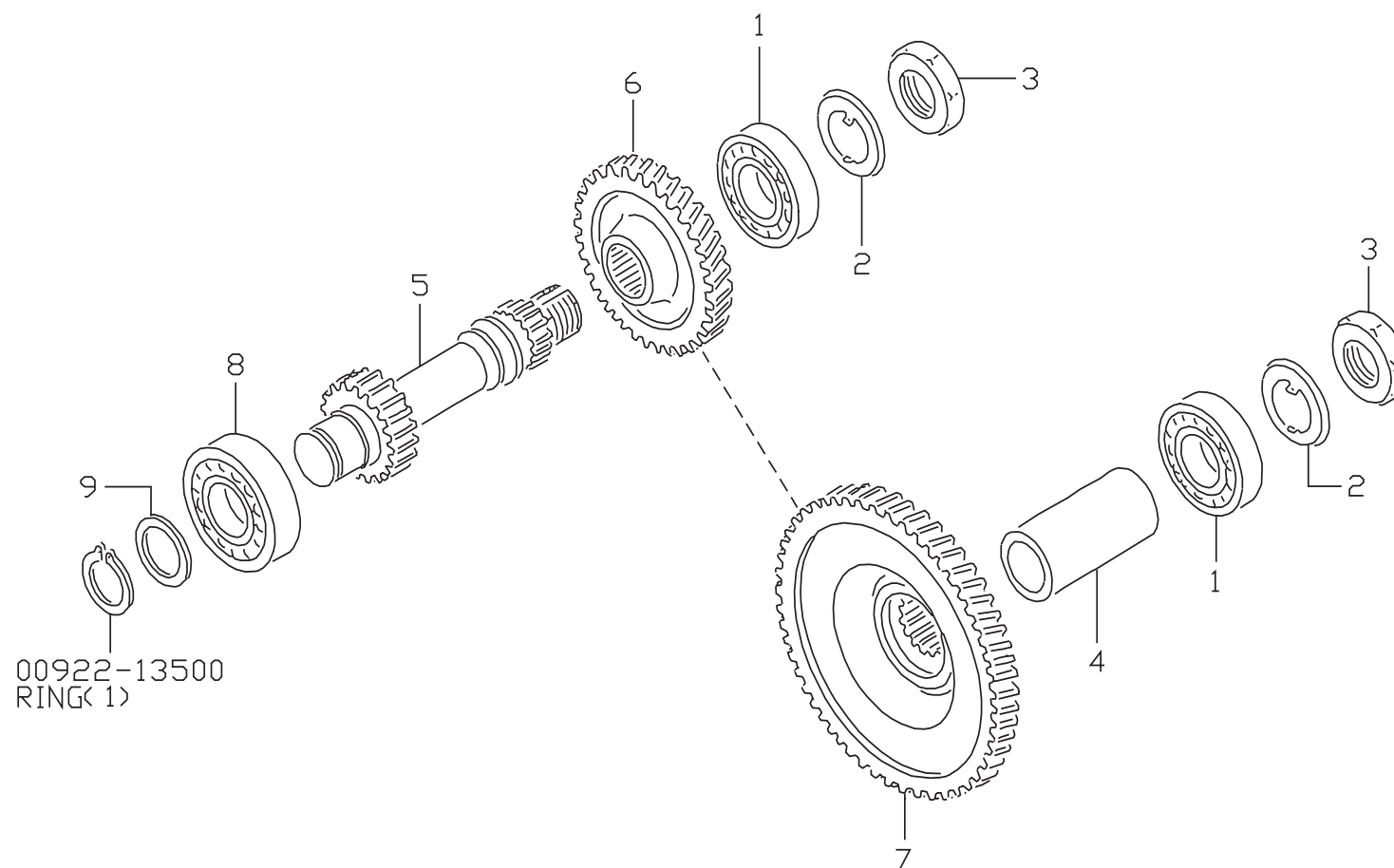
### OIL PUMP PARTS (ATM)

[illegible]



# **SEC. 314** **GOVERNOR & GEAR PARTS (ATM)**

[199909-      ]



P0TD2B310314\_A

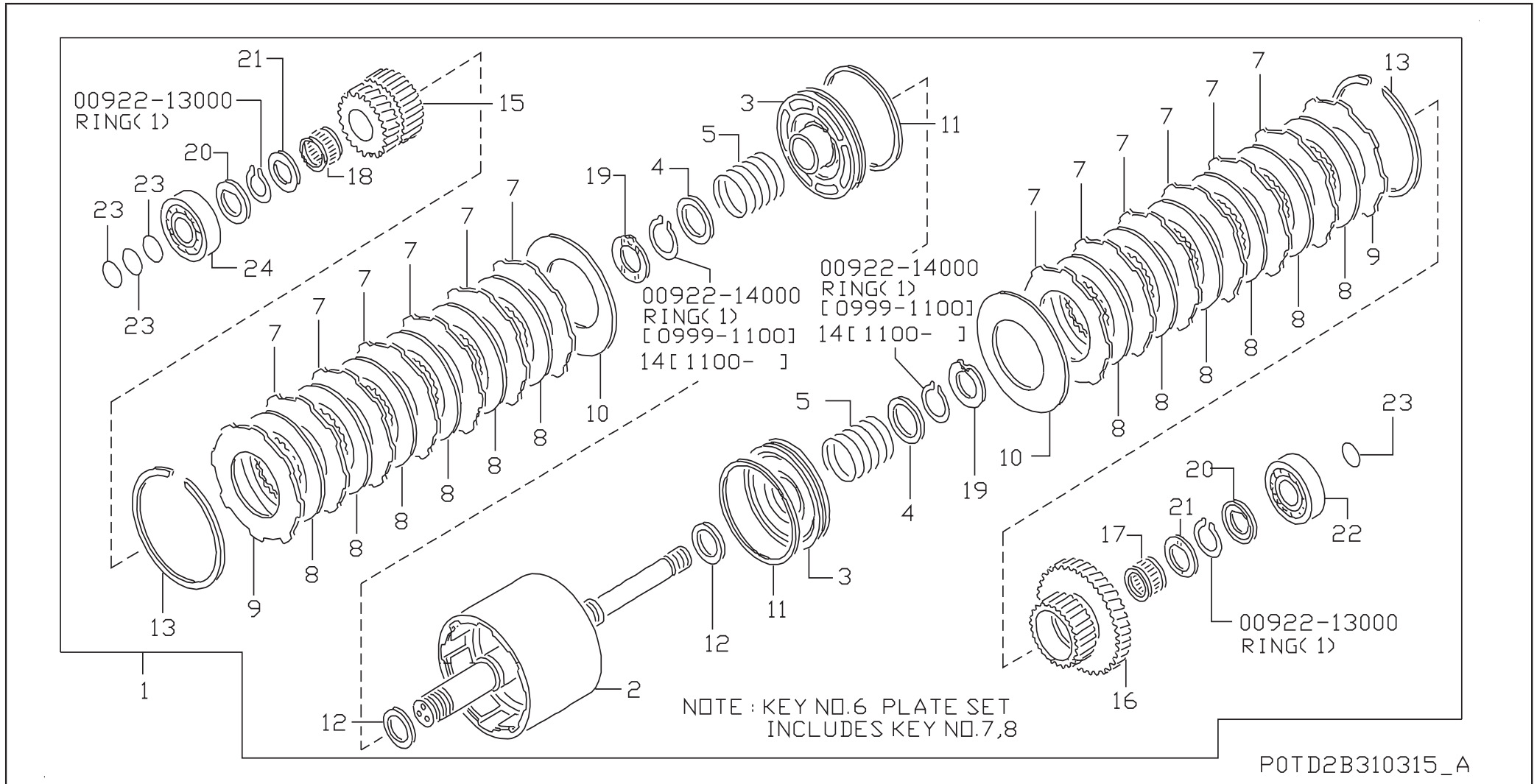
**SEC. 314**  
**GOVERNOR & GEAR PARTS (ATM)**

[illegible]

## SEC. 315

### CLUTCH & BRAKE BAND (ATM)

[199909- ]



# SEC. 315

## CLUTCH & BRAKE BAND (ATM)

SEC. 315

CLUTCH & BRAKE BAND (ATM)

										APPLIED MODEL																																	
										3	1	0	1	0	6	4	K	0	0																								
S	KEY NO.	LEV	PART NO.	PART NAME	SPECIFICATION	QTY	APPLIED DATE	ICANF	FORMER PART NO.	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
	1	001	1	31500-50K00	CLUTCH ASSY-DRUM,W/GEAR		01 9909-0011			○																																	
		002	1	-51K00			01 0011 -	22	31500-50K00	○																																	
	2	001	2	31511-40K00	SHAFT & DRUM-REVERSE CLUTCH		01 9909-0011			○																																	
		002	2	-51K00			01 0011 -			○																																	
	3	001	2	31515-40K00	PISTON ASSY-CLUTCH		02 9909-0011			○																																	
		002	2	-41K00			02 0011 -			○																																	
	4	001	2	31552-L1000	RETAINER-SPRING		02 9909-0011			○																																	
		002	2	-41K00			02 0011 -			○																																	
	5	001	2	31521-L1001	SPRING-PISTON,CLUTCH		02 9909-0011			○																																	
		002	2	-41K00			02 0011 -			○																																	
	6	001	2	31530-50K00	PLATE SET-CLUTCH		12 9909-0011			○																																	
		002	2	-41K00			12 0011 -			○																																	
	7	001	2	31536-L1500	PLATE-DRIVEN		12 9909-0011			○																																	
		002	2	-41K00			12 0011 -			○																																	
	8	001	2	31532-40K00	PLATE-DRIVE		12 9909-0011			○																																	
		002	2	-41K00			12 0011 -			○																																	
	9	001	2	31537-40K00	PLATE-RETAINING,CLUTCH	T=3.0	02 9909-0011			○																																	
		002	2	-40K01		T=3.2	02 9909-0011			○																																	
		003	2	-40K02		T=3.4	02 9909-0011			○																																	
		004	2	-40K03		T=3.6	02 9909-0011			○																																	
		005	2	-40K04		T=3.8	02 9909-0011			○																																	
		006	2	-40K05		T=4.0	02 9909-0011			○																																	
		007	2	-40K06		T=4.2	02 9909-0011			○																																	
		008	2	-40K07		T=4.4	02 9909-0011			○																																	
		009	2	-41K00		T=3.0	02 0011 -			○																																	
		010	2	-41K01		T=3.2	02 0011 -			○																																	
		011	2	-41K02		T=3.4	02 0011 -			○																																	
		012	2	-41K03		T=3.6	02 0011 -			○																																	
		013	2	-41K04		T=3.8	02 0011 -			○																																	

## SEC. 315

### CLUTCH & BRAKE BAND (ATM)

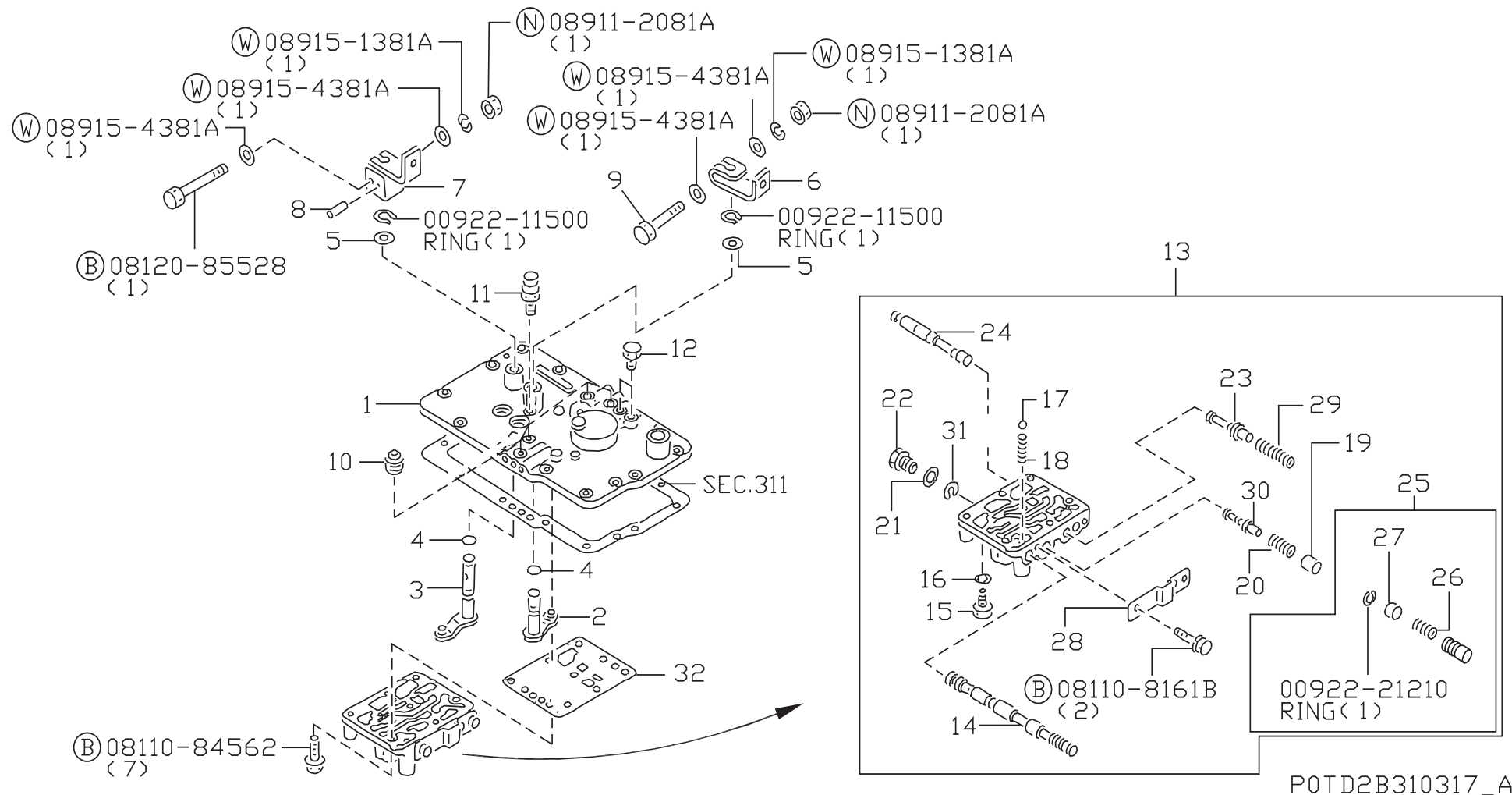
[illegible]

## This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across the entire width of the page, providing a guide for writing. The background is a clean, solid white color.

# SEC. 317

## CONTROL VALVE (ATM)

[199909- ]



# SEC. 317

## CONTROL VALVE (ATM)

SEC. 317

CONTROL VALVE (ATM)

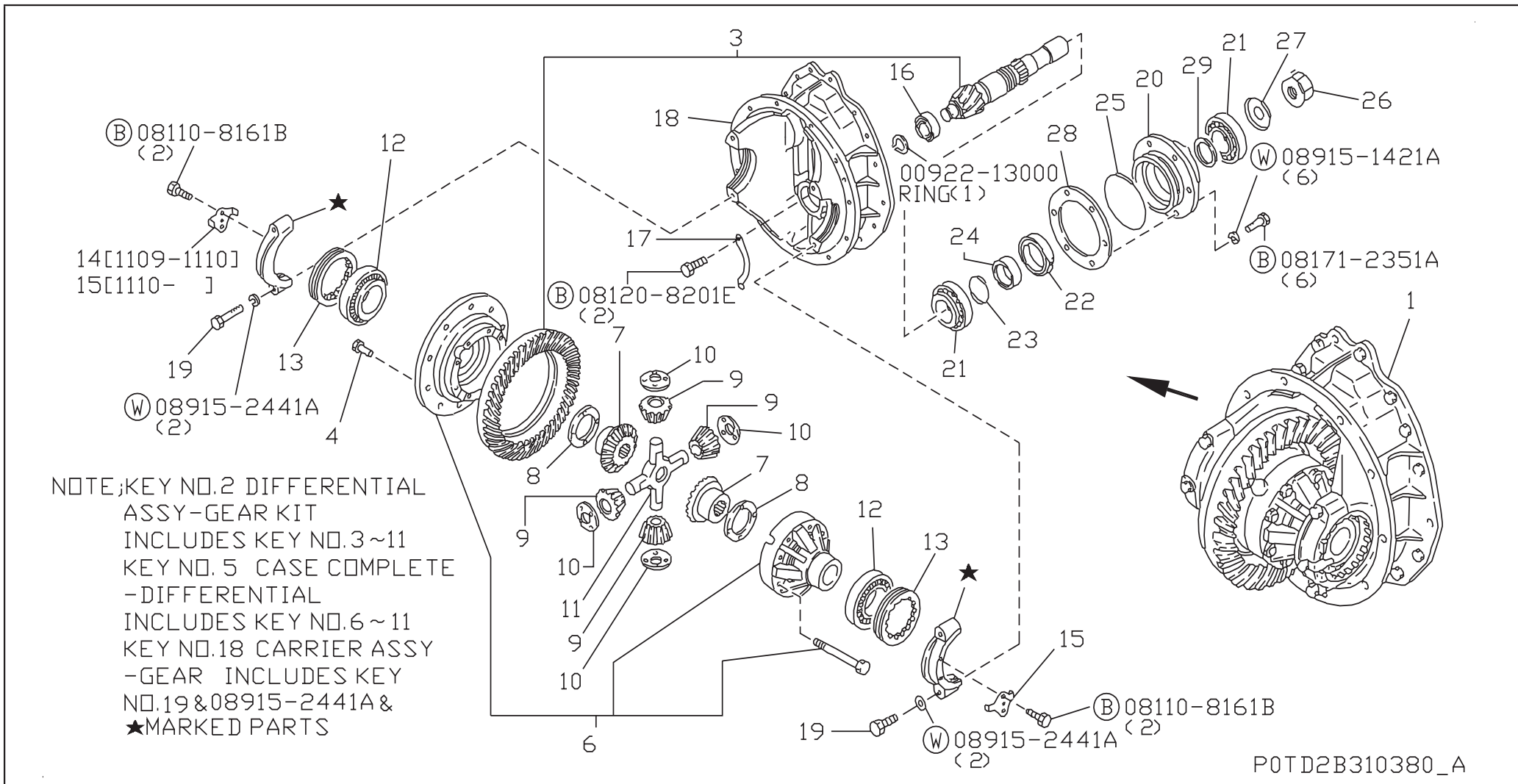
										APPLIED MODEL																															
										3	1	0	1	0	6	4	K	0	0																						
S	KEY NO.	LEV	PART NO.	PART NAME	SPECIFICATION	QTY	APPLIED DATE	ICANF	FORMER PART NO.	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
	1	001	1	31391-40K00	COVER SUB ASSY-TRANS		01 9909-			○																															
	2	001	1	31965-40K00	SHAFT ASSY-INCHING		01 9909-0111			○																															
		002	1	-40K01			01 0111-	50	31965-40K00	○																															
	3	001	1	31920-40K00	SHAFT ASSY-MANUAL		01 9909-0111			○																															
		002	1	-40K01			01 0111-	50	31920-40K00	○																															
	4	001	1	31924-40K00	SEAL-O RING		02 9909-0111			○																															
		002	1	-40K01			02 0111-	20	31924-40K00	○																															
	5	001	1	31916-L1000	WASHER-PLAIN		02 9909-			○																															
	6	001	1	31961-40K00	LEVER-INCHING		02 9909-			○																															
	7	001	1	31913-40K00	LEVER-SELECT,A		02 9909-			○																															
	8	001	1	31917-21001	PIN-SPRING		01 9909-			○																															
	9	001	1	32952-78000	BOLT		01 9909-			○																															
	10	001	1	31305-41X02	PLUG		04 9909-			○																															
	11	001	1	38322-41L00	BREATHER-AIR		01 9909-			○																															
	12	001	1	69697-00H00	PLUG		04 9909-			○																															
	13	001	1	31705-40K01	VALVE ASSY-CONTROL		01 9909-			○																															
	14	001	2	31731-11H01	VALVE-MAIN SELECT		01 9909-			○																															
	15	001	2	31733-00H00	STOPPER-INCHING VALVE		02 9909-			○																															
	16	001	2	31734-L1000	PIN-SPRING		02 9909-			○																															
	17	001	2	32829-26760	CHECK-BALL		01 9909-			○																															
	18	001	2	31732-L1000	SPRING-LOCK		01 9909-			○																															
	19	001	2	31751-00H00	PISTON-MODULATOR		01 9909-			○																															
	20	001	2	31752-00H00	SPRING-MODULATOR		01 9909-			○																															
	21	001	2	05413-1800P	GASKET		01 9909-			○																															
	22	001	2	31755-L1000	SPRING-ACCUMULATOR PISTON		01 9909-			○																															
	23	001	2	31741-L1002	VALVE-PRESSURE REGULATOR		01 9909-			○																															
	24	001	2	31761-40K02	VALVE-INCHING		01 9909-			○																															
	25	001	2	31770-L1000	VALVE ASSY-CHECK		01 9909-			○																															
	26	001	3	31772-L1000	SPRING-VALVE CHECK		01 9909-			○																															
	27	001	3	31773-L1000	VALVE-CHECK ORIFICE		01 9909-			○																															
	28	001	2	31721-L1500	PLATE-SIDE		01 9909-			○																															
	29	001	2	31742-40K00	SPRING-PRESSURE REGULATOR		01 9909-			○																															
	30	001	2	31754-40K00	VALVE-RELIEF		01 9909-			○																															
	31	001	2	31757-40K00	PLATE-VALVE RELIEF		01 9909-			○																															
	32	001	1	31715-L1001	PACKING-CONTROL VALVE	SELECT USE	01 9909-			○																															
		002	1	-4G000		SELECT USE	01 9909-			○																															



# SEC. 380

## FINAL DRIVE ASSEMBLY

[199909- ]



# SEC. 380

## FINAL DRIVE ASSEMBLY

SEC. 380

FINAL DRIVE ASSEMBLY

										APPLIED MODEL																																
										3	1	0	1	0																												
										6	4	K	0	0																												
S	KEY NO.	LEV	PART NO.	PART NAME	SPECIFICATION	QTY	APPLIED DATE	ICANF	FORMER PART NO.	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
	1	001	1	38300-64K10	FINAL DRIVE ASSY		01 9909-			○																																
	2	001	2	38405-64K00	DIFFERENTIAL ASSY,& GEAR KIT		01 9909-			○																																
	3	001	3	38100-64K00	GEAR SET-FINAL DRIVE		01 9909-			○																																
	4	001	3	38102-Z5005	BOLT-DRIVE GEAR		12 9909-			○																																
	5	001	3	38411-60K00	CASE COMPLETE-DIFF		01 9909-			○																																
	6	001	4	38420-90078	CASE ASSY-DIFFERENTIAL		01 9909-			○																																
	7	001	4	38423-90069	GEAR-SIDE DIFF BEVEL		02 9909-			○																																
	8	001	4	38424-90010	WASHER-THRUST,SIDE GEAR	T=1.54	02 9909-			○																																
		002	4	-90011		T=1.57	02 9909-			○																																
		003	4	-90012		T=1.60	02 9909-			○																																
		004	4	-90013		T=1.63	02 9909-			○																																
		005	4	-90014		T=1.66	02 9909-			○																																
		006	4	-90015		T=1.69	02 9909-			○																																
	9	001	4	38425-90017	PINION-MATE		04 9909-			○																																
	10	001	4	38426-90013	WASHER-THRUST,PINION MATE		04 9909-			○																																
	11	001	4	38427-90013	SHAFT-PINION MATE		01 9909-			○																																
	12	001	2	38673-90001	BEARING-TAPER DRIVE SHAFT		02 9909-			○																																
	13	001	2	38443-90069	SCREW-ADJUST		02 9909-			○																																
	14	001	2	38319-Z5000	PLATE-LOCK		01 9909-1011			○																																
	15	001	2	38319-Z5002	PLATE-LOCK		01 9909-1011			○																																
		002	2				02 1011-			○																																
	16	001	2	38352-90018	BEARING-ROLLER		01 9909-			○																																
	17	001	2	38316-90018	NUT-SIDE BEARING		01 9909-			○																																
	18	001	2	38310-60K00	CARRIER ASSY-GEAR		01 9909-			○																																
	19	001	3	38314-90013	BOLT		04 9909-			○																																
	20	001	2	38151-60K00	SHIM-ADJUST,DRIVE PINION		01 9909-			○																																
	21	001	2	38140-86160	BEARING-DRIVE PINION		02 9909-			○																																
	22	001	2	38139-L1001	SEAL-OIL,PINION SHAFT		01 9909-			○																																
	23	001	2	32884-L1000	SEAL-O RING		01 9909-			○																																
	24	001	2	38166-60K00	SPACER-BEARING,DRIVE PINION		01 9909-			○																																
	25	001	2	31171-L1000	SEAL-O RING		01 9909-			○																																
	26	001	2	32137-L1101	NUT-BEARING RETAINER		01 9909-			○																																
	27	001	2	32136-L1100	SEAL-OIL,OUTPUT SHAFT		01 9909-			○																																
	28	001	2	38154-L1102	SHIM-ADJUSTING DIFFERENTIAL	T=1.0	01 9909-			○																																

## SEC. 380

### FINAL DRIVE ASSEMBLY

[illegible]

## **ALPHABETICAL PART NAME INDEX**

# ALPHABETICAL PART NAME INDEX

PART NAME	SEC.NO.	PAGE	PART NAME	SEC.NO.	PAGE	PART NAME	SEC.NO.	PAGE
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